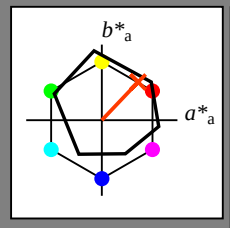
Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel}$ = h_{ab}/360 = 46/360 = 0.12

H^*_{-} = R25Y$_{-}$

Data for any device (d) or elementary (e) colour:
HIC$_{-}$*
hue text for the colours of this page:
H^*_{-} = R25Y$_{-}$
triangle lightness T^*



ORS18a; adapted (a) CIELAB data

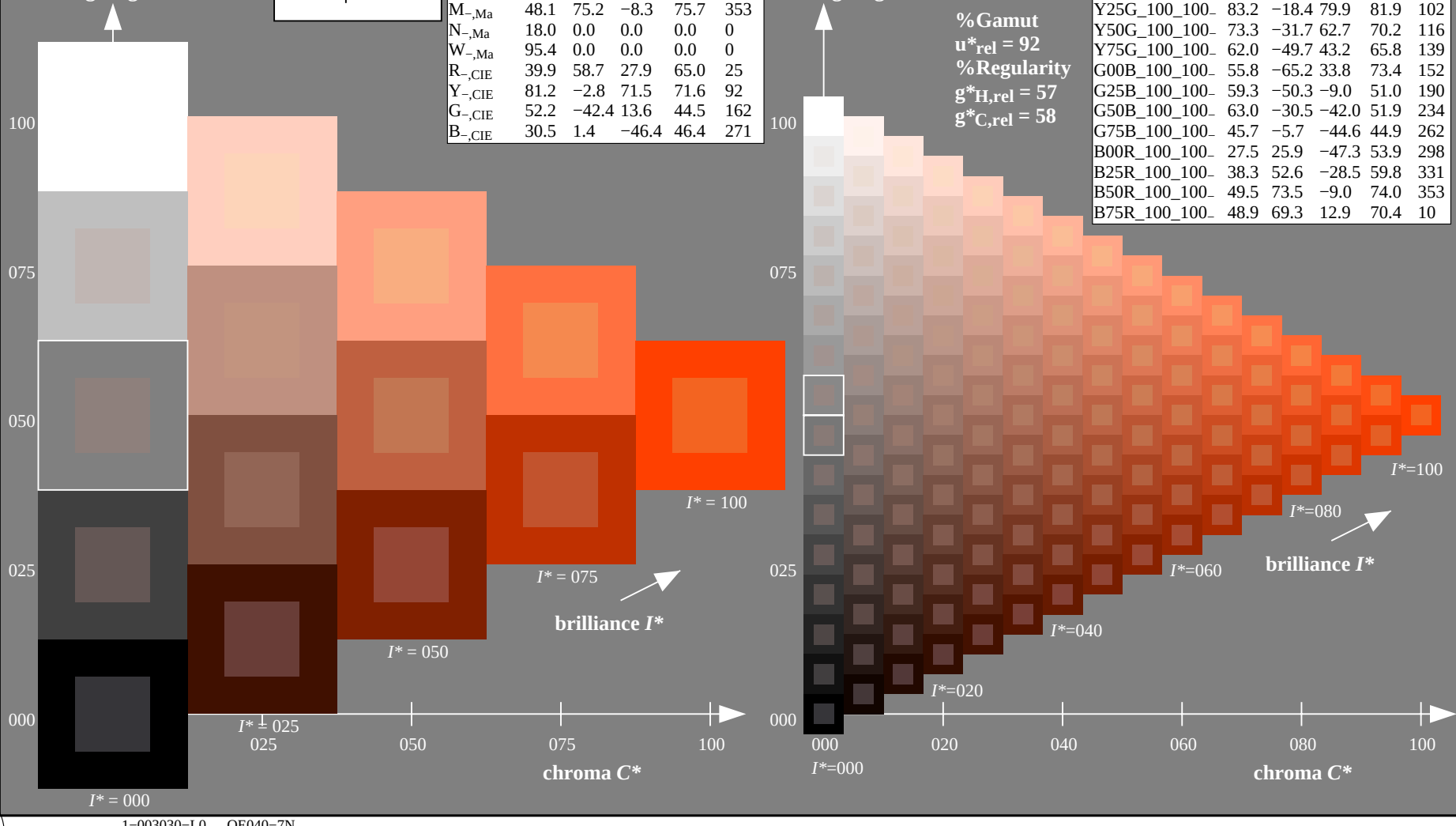
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R$_{-}$,Ma	47.9	65.3	50.5	82.6	37
Y$_{-}$,Ma	90.3	−10.2	91.7	92.3	96
G$_{-}$,Ma	50.9	−62.8	34.9	71.9	150
C$_{-}$,Ma	58.6	−30.3	−45.0	54.2	236
B$_{-}$,Ma	25.7	31.0	−44.4	54.2	305
M$_{-}$,Ma	48.1	75.2	−8.3	75.7	353
N$_{-}$,Ma	18.0	0.0	0.0	0.0	0
W$_{-}$,Ma	95.4	0.0	0.0	0.0	0
R$_{-}$,CIE	39.9	58.7	27.9	65.0	25
Y$_{-}$,CIE	81.2	−2.8	71.5	71.6	92
G$_{-}$,CIE	52.2	−42.4	13.6	44.5	162
B$_{-}$,CIE	30.5	1.4	−46.4	46.4	271

Data for maximum colour (Ma):
***LabCh*$_{-}$,Ma*: 56 48 50 69 46**
***HIC*$_{-}$,Ma*: R25Y_100_100$_{-}$**
***rgbic*$_{-}$,Ma*:**
1.0 0.23 0.0 1.0 1.0
triangle lightness T^*

%Gamut
u^*_{rel} = 92
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 58

ORS20a; adapted (a) CIELAB data

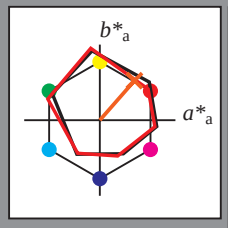
H^*_{-}	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100$_{-}$	48.4	66.1	40.2	77.3	31
R25Y_100_100$_{-}$	56.8	48.0	50.5	69.6	46
R50Y_100_100$_{-}$	68.6	25.0	63.9	68.6	68
R75Y_100_100$_{-}$	80.6	4.8	77.2	77.3	86
Y00G_100_100$_{-}$	90.2	−9.6	88.2	88.7	96
Y25G_100_100$_{-}$	83.2	−18.4	79.9	81.9	102
Y50G_100_100$_{-}$	73.3	−31.7	62.7	70.2	116
Y75G_100_100$_{-}$	62.0	−49.7	43.2	65.8	139
G00B_100_100$_{-}$	55.8	−65.2	33.8	73.4	152
G25B_100_100$_{-}$	59.3	−50.3	−9.0	51.0	190
G50B_100_100$_{-}$	63.0	−30.5	−42.0	51.9	234
G75B_100_100$_{-}$	45.7	−5.7	−44.6	44.9	262
B00R_100_100$_{-}$	27.5	25.9	−47.3	53.9	298
B25R_100_100$_{-}$	38.3	52.6	−28.5	59.8	331
B50R_100_100$_{-}$	49.5	73.5	−9.0	74.0	353
B75R_100_100$_{-}$	48.9	69.3	12.9	70.4	10



Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel}$ = h_{ab}/360 = 48/360 = 0.13

H^*_d = R25Y$_d$

Data for any device (d) or elementary (e) colour:
***HIC*$^*_d$**
hue text for the colours of this page:
H^*_d = R25Y$_d$
triangle lightness *T



ORS20a; adapted (a) CIELAB data

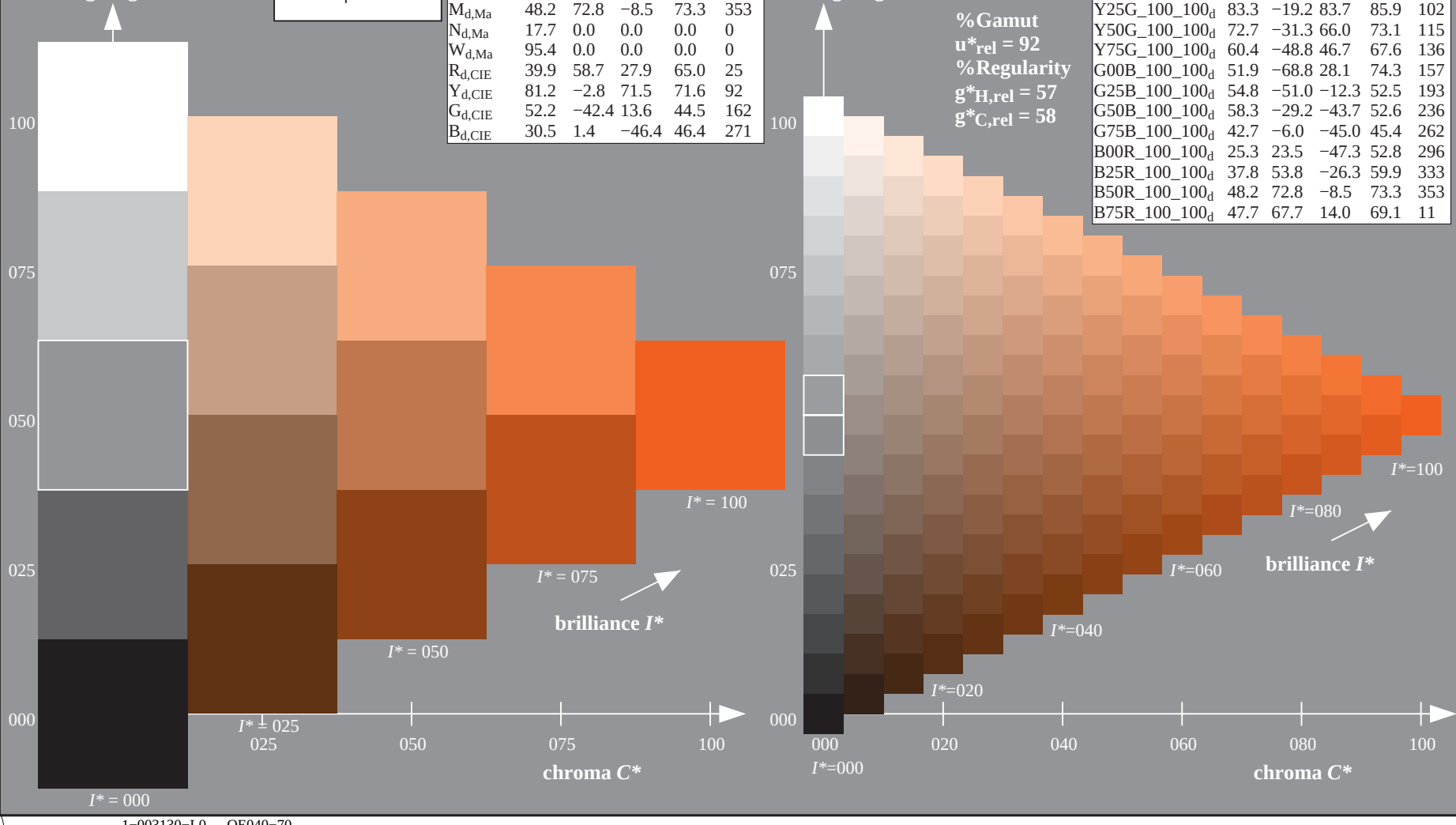
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{d,Ma}$	47.3	63.8	41.2	76.0	32
$Y_{d,Ma}$	88.3	−11.9	95.1	95.8	97
$G_{d,Ma}$	51.9	−68.8	28.1	74.3	157
$C_{d,Ma}$	58.3	−29.2	−43.7	52.6	236
$B_{d,Ma}$	25.3	23.5	−47.3	52.8	296
$M_{d,Ma}$	48.2	72.8	−8.5	73.3	353
$N_{d,Ma}$	17.7	0.0	0.0	0.0	0
$W_{d,Ma}$	95.4	0.0	0.0	0.0	0
$R_{d,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{d,CIE}$	81.2	−2.8	71.5	71.6	92
$G_{d,CIE}$	52.2	−42.4	13.6	44.5	162
$B_{d,CIE}$	30.5	1.4	−46.4	46.4	271

Data for maximum colour (Ma):
***LabCh*$^*_{d,Ma}$: 55 45 52 69 48**
***HIC*$^*_{d,Ma}$: R25Y_100_100$_d$**
***rgbic*$^*_{d,Ma}$:**
1.0 0.23 0.0 1.0 1.0
triangle lightness *T**

%Gamut
u^*_{rel} = 92
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 58

ORS20a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100$_d$	47.3	63.8	41.2	76.0	32
R25Y_100_100$_d$	55.3	45.8	52.2	69.5	48
R50Y_100_100$_d$	67.2	22.6	67.6	71.2	71
R75Y_100_100$_d$	79.9	1.0	83.9	83.9	89
Y00G_100_100$_d$	88.3	−11.9	95.1	95.8	97
Y25G_100_100$_d$	83.3	−19.2	83.7	85.9	102
Y50G_100_100$_d$	72.7	−31.3	66.0	73.1	115
Y75G_100_100$_d$	60.4	−48.8	46.7	67.6	136
G00B_100_100$_d$	51.9	−68.8	28.1	74.3	157
G25B_100_100$_d$	54.8	−51.0	−12.3	52.5	193
G50B_100_100$_d$	58.3	−29.2	−43.7	52.6	236
G75B_100_100$_d$	42.7	−6.0	−45.0	45.4	262
B00R_100_100$_d$	25.3	23.5	−47.3	52.8	296
B25R_100_100$_d$	37.8	53.8	−26.3	59.9	333
B50R_100_100$_d$	48.2	72.8	−8.5	73.3	353
B75R_100_100$_d$	47.7	67.7	14.0	69.1	11



1−003130−L0 QE040−70

TUB-test chart QE04; hue code: H^*_d=R25Y$_d$
Test chart according to DIN 33872, 3D=0, de=0, *cmyk*

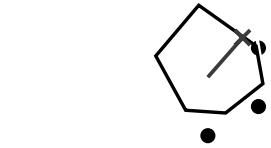
input: *rgb/cmyk* −> *rgb*$_d$
output: transfer to *cmyk*$_d$

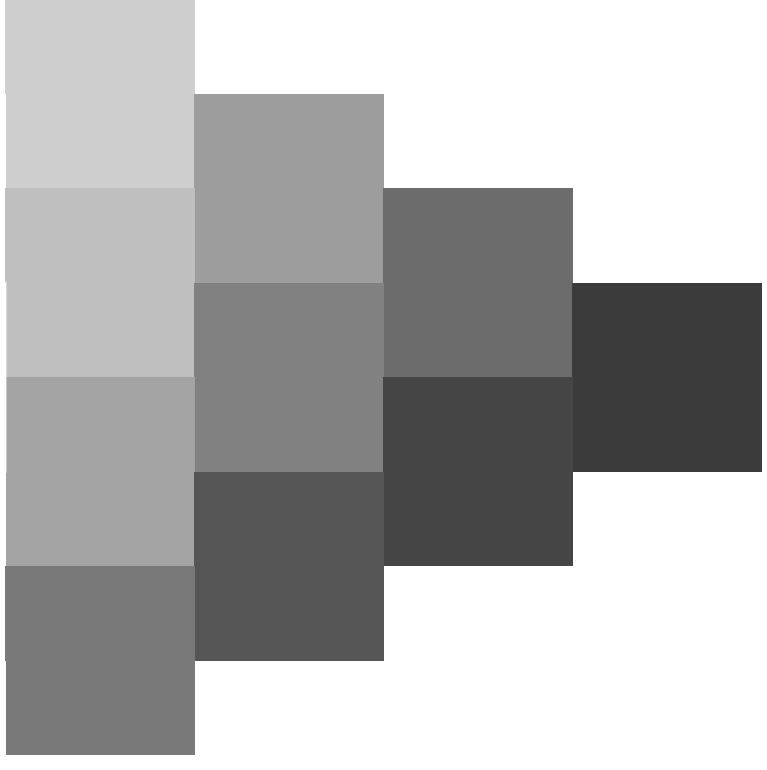
1−003130−F0

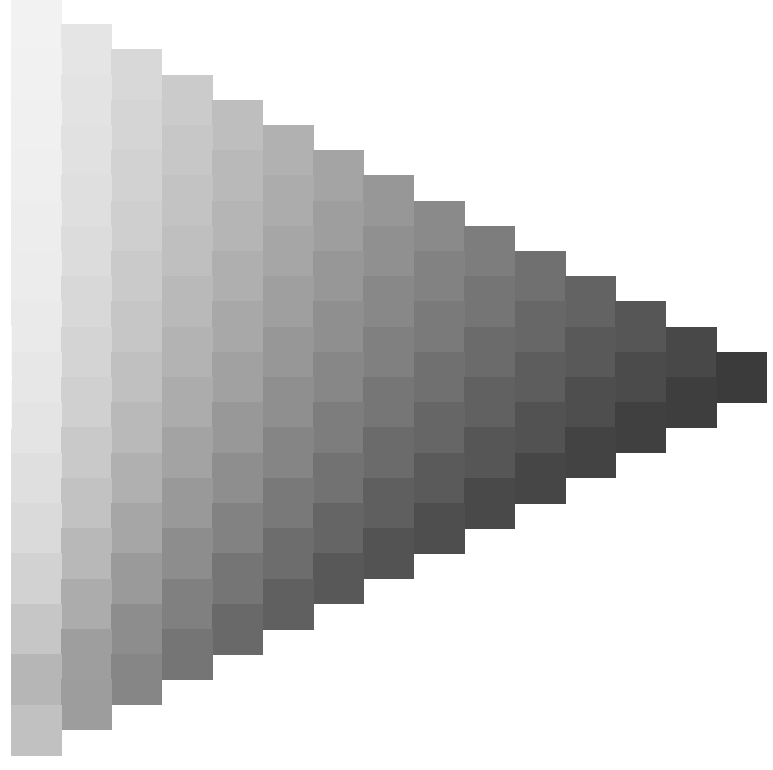
QE04 00L

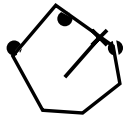
TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

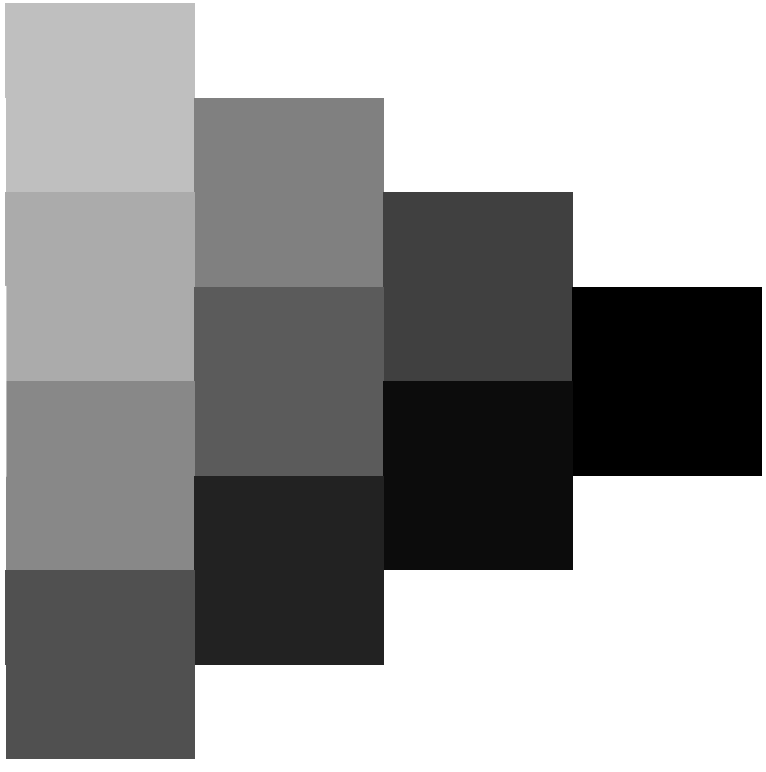
TUB material: code=rha4ta

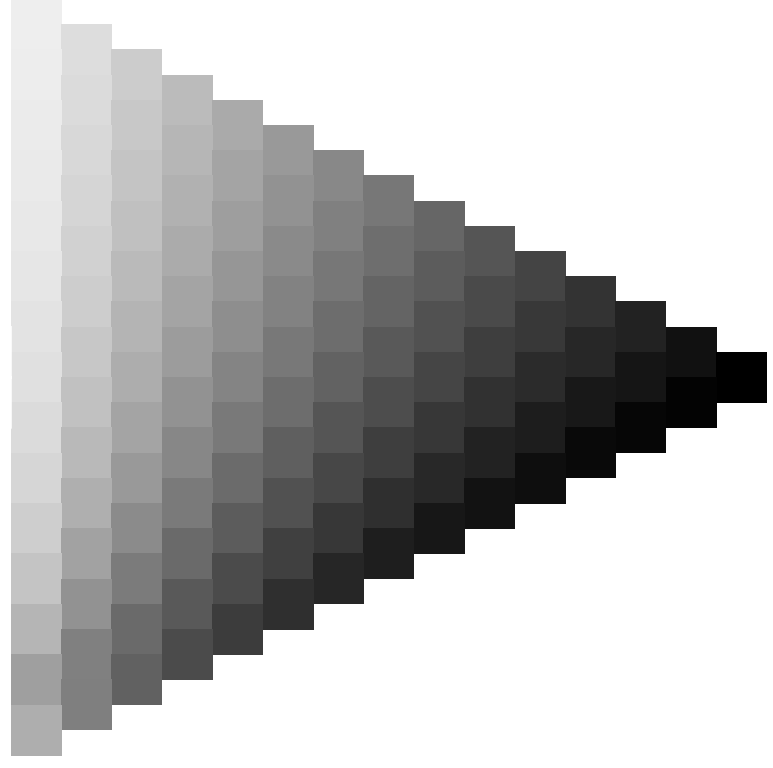








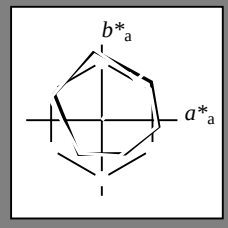




Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel}$ = h_{ab}/360 = 48/360 = 0.13

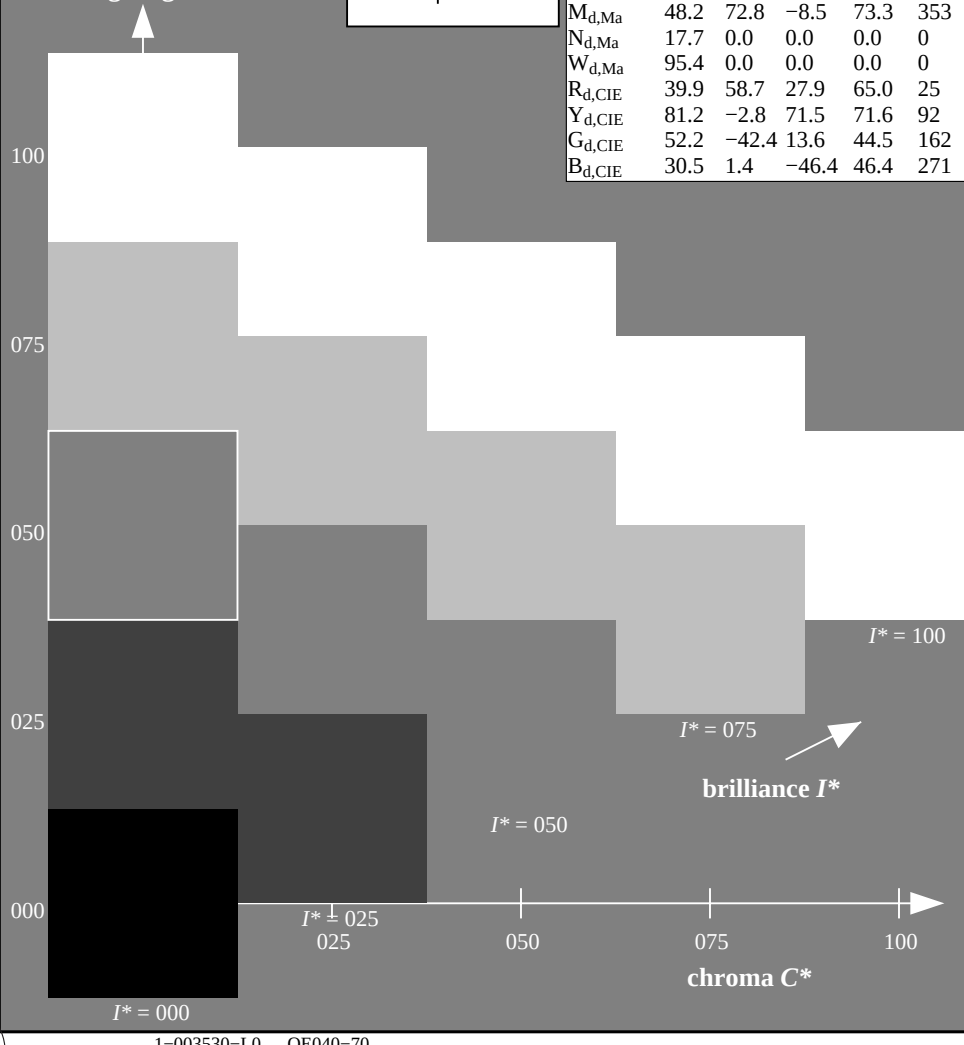
H^*_d = R25Y$_d$

Data for any device (d) or elementary (e) colour:
***HIC*$^*_d$**
hue text for the colours of this page:
H^*_d = R25Y$_d$
triangle lightness *T



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{d,Ma}$	47.3	63.8	41.2	76.0	32
$Y_{d,Ma}$	88.3	−11.9	95.1	95.8	97
$G_{d,Ma}$	51.9	−68.8	28.1	74.3	157
$C_{d,Ma}$	58.3	−29.2	−43.7	52.6	236
$B_{d,Ma}$	25.3	23.5	−47.3	52.8	296
$M_{d,Ma}$	48.2	72.8	−8.5	73.3	353
$N_{d,Ma}$	17.7	0.0	0.0	0.0	0
$W_{d,Ma}$	95.4	0.0	0.0	0.0	0
$R_{d,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{d,CIE}$	81.2	−2.8	71.5	71.6	92
$G_{d,CIE}$	52.2	−42.4	13.6	44.5	162
$B_{d,CIE}$	30.5	1.4	−46.4	46.4	271

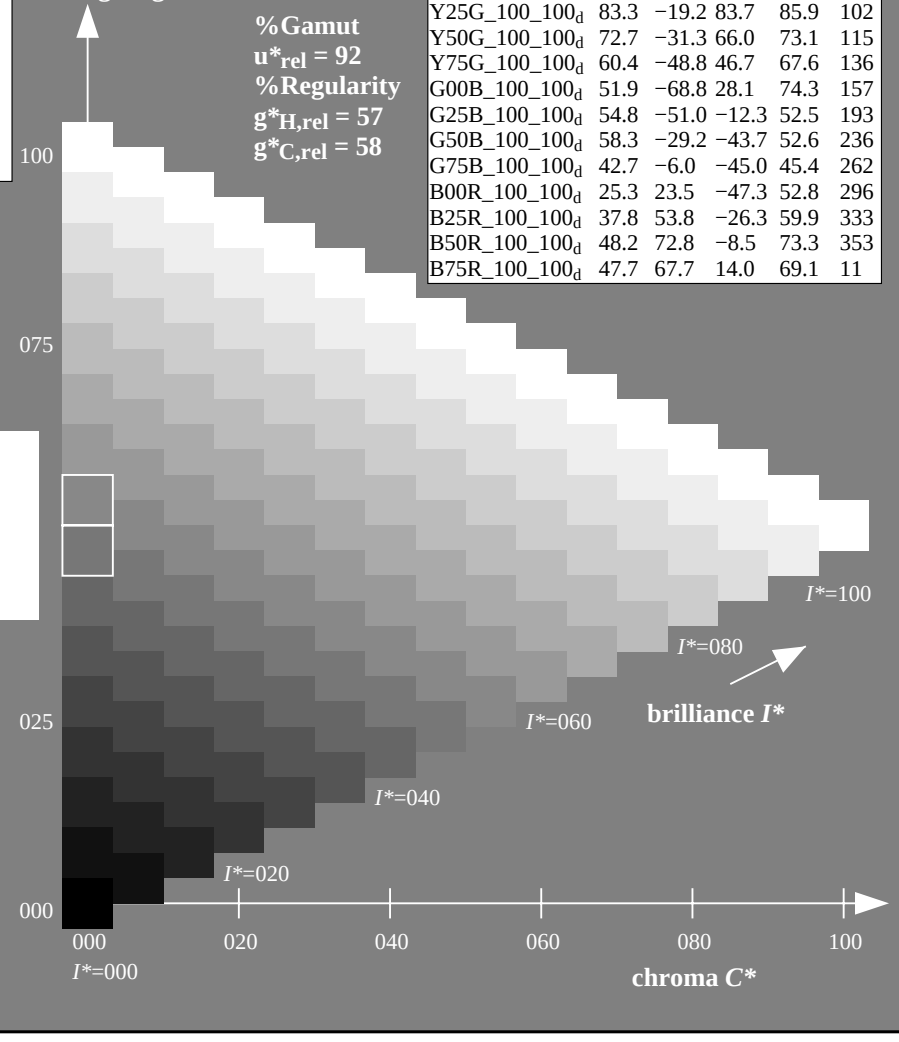


Data for maximum colour (Ma):
***LabCh*$^*_{d,Ma}$: 55 45 52 69 48**
***HIC*$^*_{d,Ma}$: R25Y_100_100$_d$**
***rgbic*$^*_{d,Ma}$:**
1.0 0.23 0.0 1.0 1.0
triangle lightness *T**

%Gamut
u^*_{rel} = 92
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 58

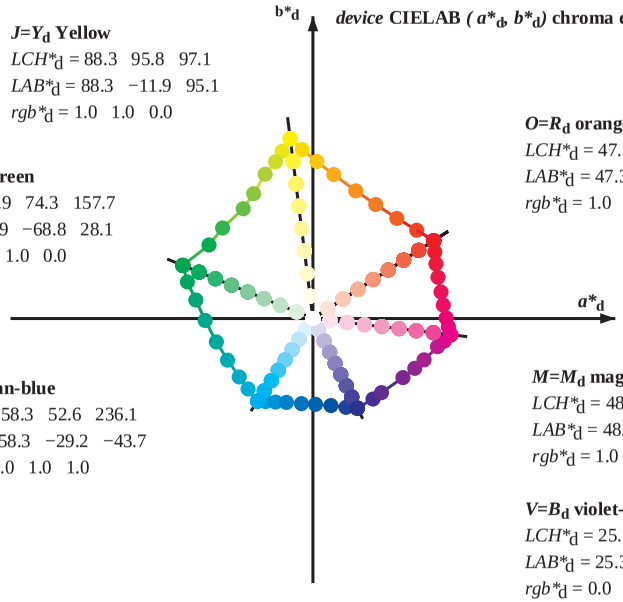
ORS20a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100$_d$	47.3	63.8	41.2	76.0	32
R25Y_100_100$_d$	55.3	45.8	52.2	69.5	48
R50Y_100_100$_d$	67.2	22.6	67.6	71.2	71
R75Y_100_100$_d$	79.9	1.0	83.9	83.9	89
Y00G_100_100$_d$	88.3	−11.9	95.1	95.8	97
Y25G_100_100$_d$	83.3	−19.2	83.7	85.9	102
Y50G_100_100$_d$	72.7	−31.3	66.0	73.1	115
Y75G_100_100$_d$	60.4	−48.8	46.7	67.6	136
G00B_100_100$_d$	51.9	−68.8	28.1	74.3	157
G25B_100_100$_d$	54.8	−51.0	−12.3	52.5	193
G50B_100_100$_d$	58.3	−29.2	−43.7	52.6	236
G75B_100_100$_d$	42.7	−6.0	−45.0	45.4	262
B00R_100_100$_d$	25.3	23.5	−47.3	52.8	296
B25R_100_100$_d$	37.8	53.8	−26.3	59.9	333
B50R_100_100$_d$	48.2	72.8	−8.5	73.3	353
B75R_100_100$_d$	47.7	67.7	14.0	69.1	11



Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

device CIELAB (a^*_d, b^*_d) chroma diagram



J=Y_d Yellow
LCH^*_d = 88.3 95.8 97.1
LAB^*_d = 88.3 −11.9 95.1
rgb^*_d = 1.0 1.0 0.0

O=R_d orange-red
LCH^*_d = 47.3 76.0 32.8
LAB^*_d = 47.3 63.8 41.2
rgb^*_d = 1.0 0.0 0.0

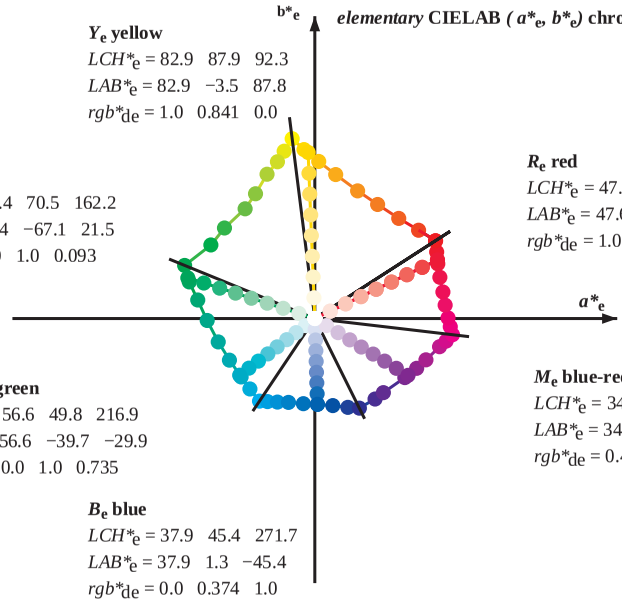
L=G_d leaf-green
LCH^*_d = 51.9 74.3 157.7
LAB^*_d = 51.9 −68.8 28.1
rgb^*_d = 0.0 1.0 0.0

C=C_d cyan-blue
LCH^*_d = 58.3 52.6 236.1
LAB^*_d = 58.3 −29.2 −43.7
rgb^*_d = 0.0 1.0 1.0

M=M_d magenta-red
LCH^*_d = 48.2 73.3 353.3
LAB^*_d = 48.2 72.8 −8.5
rgb^*_d = 1.0 0.0 1.0

V=B_d violet-blue
LCH^*_d = 25.3 52.8 296.4
LAB^*_d = 25.3 23.5 −47.3
rgb^*_d = 0.0 0.0 1.0

elementary CIELAB (a^*_e, b^*_e) chroma diagram



Y_e yellow
LCH^*_e = 82.9 87.9 92.3
LAB^*_e = 82.9 −3.5 87.8
rgb^*_{de} = 1.0 0.841 0.0

R_e red
LCH^*_e = 47.6 71.9 25.4
LAB^*_e = 47.6 64.9 30.9
rgb^*_{de} = 1.0 0.0 0.209

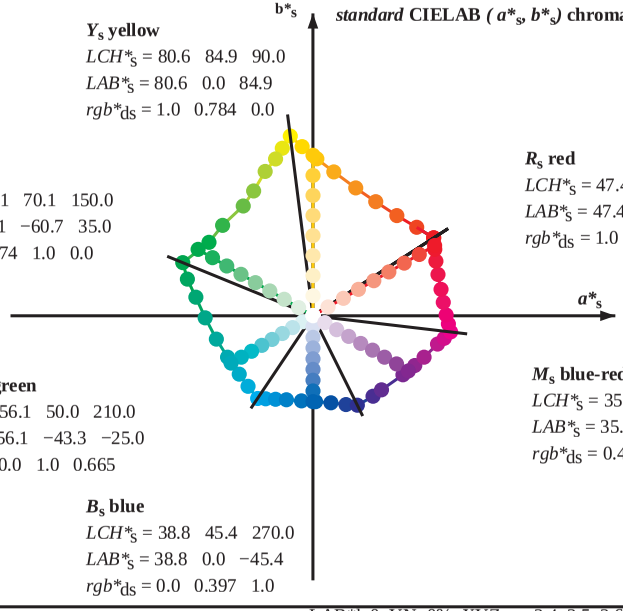
G_e green
LCH^*_e = 52.4 70.5 162.2
LAB^*_e = 52.4 −67.1 21.5
rgb^*_{de} = 0.0 1.0 0.093

C_e blue-green
LCH^*_e = 56.6 49.8 216.9
LAB^*_e = 56.6 −39.7 −29.9
rgb^*_{de} = 0.0 1.0 0.735

M_e blue-red
LCH^*_e = 34.8 57.7 328.6
LAB^*_e = 34.8 49.2 −30.0
rgb^*_{de} = 0.407 0.0 1.0

B_e blue
LCH^*_e = 37.9 45.4 271.7
LAB^*_e = 37.9 1.3 −45.4
rgb^*_{de} = 0.0 0.374 1.0

standard CIELAB (a^*_s, b^*_s) chroma diagram



Y_s yellow
LCH^*_s = 80.6 84.9 90.0
LAB^*_s = 80.6 0.0 84.9
rgb^*_{ds} = 1.0 0.784 0.0

R_s red
LCH^*_s = 47.4 74.2 30.0
LAB^*_s = 47.4 64.3 37.1
rgb^*_{ds} = 1.0 0.0 0.084

G_s green
LCH^*_s = 55.1 70.1 150.0
LAB^*_s = 55.1 −60.7 35.0
rgb^*_{ds} = 0.074 1.0 0.0

C_s blue-green
LCH^*_s = 56.1 50.0 210.0
LAB^*_s = 56.1 −43.3 −25.0
rgb^*_{ds} = 0.0 1.0 0.665

M_s blue-red
LCH^*_s = 35.6 58.3 330.0
LAB^*_s = 35.6 50.5 −29.1
rgb^*_{ds} = 0.431 0.0 1.0

B_s blue
LCH^*_s = 38.8 45.4 270.0
LAB^*_s = 38.8 0.0 −45.4
rgb^*_{ds} = 0.0 0.397 1.0

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_{de}-input values the CIELAB data LCH^*_d and LAB^*_d have been calculated.
2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_d the equation:
$$h_{ab,s} = atan\ [\ r^*_d\ cos(30) + g^*_d\ cos(150)\ ]\ /\ [\ r^*_d\ sin(30) + g^*_d\ sin(150) + b^*_d\ sin(270)\ ] \quad (1)$$
3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours *s*: $h_{ab,si}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6) and the equations for a 48 and 360 step hue circle:
$$h_{48ab,sij} = h_{ab,si} + j\ [h_{ab,si+1} - h_{ab,si}\ ]\ /8\ (\ i = 0, 1, ..., 5; j = 0, 1, ..., 7) \quad (2)$$
$$h_{360ab,sij} = h_{ab,si} + j\ [h_{ab,si+1} - h_{ab,si}\ ]\ /60\ (\ i = 0, 1, ..., 5; j = 0, 1, ..., 59) \quad (3)$$
4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours *e*: $h_{ab,ei}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6) and the equations for a 48 and 360 step elementary hue circle:
$$h_{48ab,eij} = h_{ab,ei} + j\ [h_{ab,ei+1} - h_{ab,ei}\ ]\ /8\ (\ i = 0, 1, ..., 5; j = 0, 1, ..., 7) \quad (4)$$
$$h_{360ab,eij} = h_{ab,ei} + j\ [h_{ab,ei+1} - h_{ab,ei}\ ]\ /60\ (\ i = 0, 1, ..., 5; j = 0, 1, ..., 59) \quad (5)$$
5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
6. The values rgb^*_{de} produce the output of the device-independent elementary hues

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

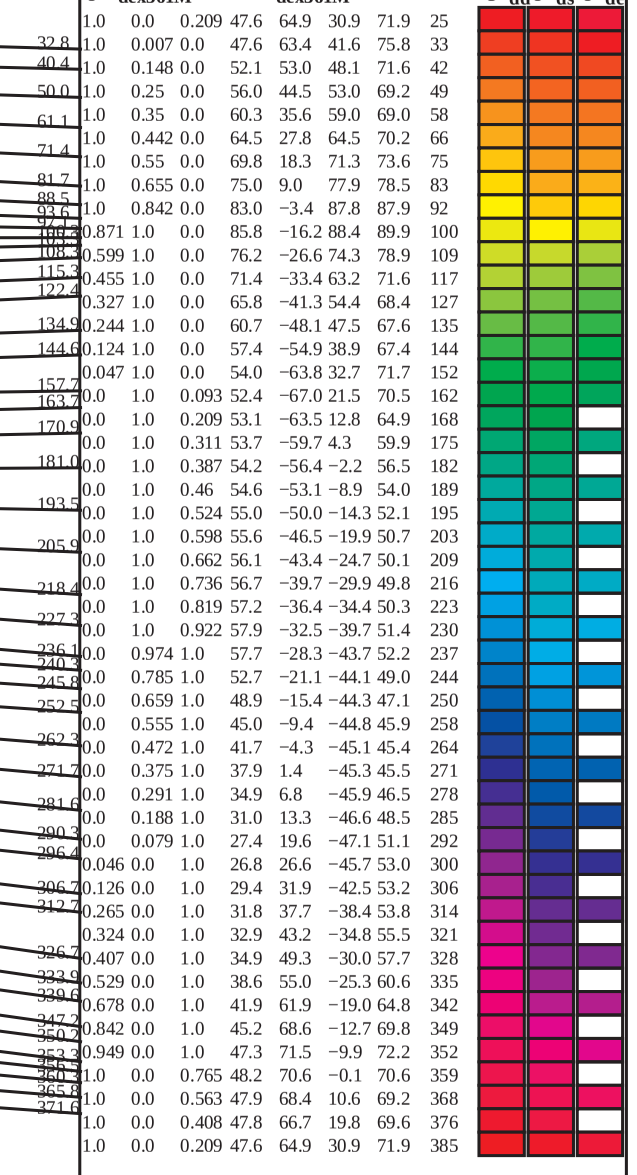
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**dd64M			*LAB**ddx64M (x=LabCh)					*rgb**ddx361M			*LAB**ddx361M (x=LabCh)					*rgb**dsx361M			*LAB**dsx361M (x=LabCh)					*rgb**dex361M			*LAB**dex361M					rgb*$_{dd}$	*rgb**$_{ds}$	*rgb**$_{de}$
32.8	30.0	25.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	47.4	63.9	41.2	76.0	32	1.0	0.0	0.084	47.4	64.3	37.1	74.3	30	1.0	0.0	0.209	47.6	64.9	30.9	71.9	25			
40.4	37.5	33.8	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4	1.0	0.117	0.0	51.0	55.5	46.5	72.4	39	1.0	0.069	0.0	49.5	59.0	44.5	73.9	37	1.0	0.007	0.0	47.6	63.4	41.6	75.8	33			
50.0	45.0	42.1	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	1.0	0.25	0.0	56.0	44.4	53.0	69.2	50	1.0	0.185	0.0	53.5	50.0	50.0	70.7	45	1.0	0.148	0.0	52.1	53.0	48.1	71.6	42			
61.1	52.5	50.5	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1	1.0	0.367	0.0	61.1	34.0	59.9	68.9	60	1.0	0.272	0.0	57.0	42.6	54.5	69.1	52	1.0	0.25	0.0	56.0	44.5	53.0	69.2	49			
71.4	60.0	58.8	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	1.0	0.5	0.0	67.2	22.6	67.6	71.3	71	1.0	0.362	0.0	60.9	34.5	59.7	68.9	60	1.0	0.35	0.0	60.3	35.6	59.0	69.0	58			
81.7	67.5	67.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7	1.0	0.617	0.0	73.2	11.9	75.7	76.6	81	1.0	0.446	0.0	64.7	27.4	64.7	70.3	67	1.0	0.442	0.0	64.5	27.8	64.5	70.2	66			
88.5	75.0	75.6	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	1.0	0.75	0.0	79.3	2.0	83.1	83.1	88	1.0	0.543	0.0	69.4	19.0	70.7	73.2	75	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75			
93.6	82.5	83.9	1.0	0.875	0.0	84.2	−5.7	89.4	89.6	93.6	1.0	0.867	0.0	84.0	−5.1	89.1	89.2	93	1.0	0.629	0.0	73.8	10.7	76.5	77.2	82	1.0	0.655	0.0	75.0	9.0	77.9	78.5	83			
97.1	90.0	92.3	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	1.0	1.0	0.0	88.4	−11.9	95.1	95.9	97	1.0	0.785	0.0	80.7	0.0	84.9	84.9	90	1.0	0.842	0.0	83.0	−3.4	87.8	87.9	92			
100.3	97.5	101.0	0.875	1.0	0.0	85.8	−16.2	88.6	90.0	100.3	0.883	1.0	0.0	86.0	−15.9	89.0	90.5	100	1.0	0.994	0.0	88.2	−11.5	94.8	95.6	97	0.871	1.0	0.0	85.8	−16.2	88.4	89.9	100			
103.3	105.0	109.7	0.75	1.0	0.0	82.9	−19.7	83.0	85.3	103.3	0.75	1.0	0.0	83.0	−19.6	83.0	85.3	103	0.709	1.0	0.0	81.0	−21.6	80.9	83.7	105	0.599	1.0	0.0	76.2	−26.6	74.3	78.9	109			
108.3	112.5	118.5	0.625	1.0	0.0	77.0	−25.2	76.3	80.4	108.3	0.633	1.0	0.0	77.5	−24.8	76.8	80.8	107	0.56	1.0	0.0	74.9	−28.6	71.1	76.6	112	0.455	1.0	0.0	71.4	−33.4	63.2	71.6	117			
115.3	120.0	127.2	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.5	1.0	0.0	72.8	−31.3	66.1	73.1	115	0.418	1.0	0.0	70.3	−35.1	60.9	70.3	120	0.327	1.0	0.0	65.8	−41.3	54.4	68.4	127			
122.4	127.5	136.0	0.375	1.0	0.0	68.9	−36.9	58.1	68.8	122.4	0.383	1.0	0.0	69.2	−36.5	58.6	69.1	121	0.329	1.0	0.0	66.0	−41.1	54.6	68.4	127	0.244	1.0	0.0	60.7	−48.1	47.5	67.6	135			
134.9	135.0	144.7	0.25	1.0	0.0	60.8	−47.8	47.8	67.6	134.9	0.25	1.0	0.0	60.9	−47.7	47.9	67.7	134	0.249	1.0	0.0	60.9	−47.7	47.8	67.7	135	0.124	1.0	0.0	57.4	−54.9	38.9	67.4	144			
144.6	142.5	153.4	0.125	1.0	0.0	57.4	−54.9	38.9	67.3	144.6	0.133	1.0	0.0	57.6	−54.4	39.6	67.4	144	0.159	1.0	0.0	58.4	−53.0	41.5	67.4	142	0.047	1.0	0.0	54.0	−63.8	32.7	71.7	152			
157.7	150.0	162.2	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	52.0	−68.8	28.1	74.4	157	0.074	1.0	0.0	55.2	−60.7	35.1	70.2	150	0.0	1.0	0.093	52.4	−67.0	21.5	70.5	162			
163.7	157.5	169.0	0.0	1.0	0.125	52.5	−66.4	19.3	69.1	163.7	0.0	1.0	0.117	52.5	−66.5	19.9	69.5	163	0.008	1.0	0.0	52.3	−68.0	28.9	73.9	157	0.0	1.0	0.209	53.1	−63.5	12.8	64.9	168			
170.9	165.0	175.9	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170.9	0.0	1.0	0.25	53.3	−61.9	9.8	62.8	170	0.0	1.0	0.147	52.7	−65.7	17.6	68.1	165	0.0	1.0	0.311	53.7	−59.7	4.3	59.9	175			
181.0	172.5	182.7	0.0	1.0	0.375	54.1	−56.9	−1.0	56.9	181.0	0.0	1.0	0.367	54.0	−57.3	−0.3	57.4	180	0.0	1.0	0.263	53.4	−61.5	8.7	62.2	172	0.0	1.0	0.387	54.2	−56.4	−2.2	56.5	182			
193.5	180.0	189.6	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	1.0	0.5	54.8	−51.0	−12.2	52.6	193	0.0	1.0	0.362	54.0	−57.5	0.0	57.6	180	0.0	1.0	0.46	54.6	−53.1	−8.9	54.0	189			
205.9	187.5	196.4	0.0	1.0	0.625	55.8	−45.1	−21.9	50.1	205.9	0.0	1.0	0.617	55.8	−45.5	−21.3	50.3	205	0.0	1.0	0.434	54.5	−54.4	−6.6	54.9	187	0.0	1.0	0.524	55.0	−50.0	−14.3	52.1	195			
218.4	195.0	203.2	0.0	1.0	0.75	56.7	−38.9	−30.9	49.7	218.4	0.0	1.0	0.75	56.8	−38.9	−30.8	49.8	218	0.0	1.0	0.514	55.0	−50.4	−13.4	52.3	195	0.0	1.0	0.598	55.6	−46.5	−19.9	50.7	203			
227.3	202.5	210.1	0.0	1.0	0.875	57.5	−34.3	−37.2	50.6	227.3	0.0	1.0	0.867	57.5	−34.6	−36.8	50.6	226	0.0	1.0	0.585	55.5	−47.1	−19.0	50.9	202	0.0	1.0	0.662	56.1	−43.4	−24.7	50.1	209			
236.1	210.0	216.9	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	1.0	1.0	58.3	−29.2	−43.6	52.6	236	0.0	1.0	0.666	56.1	−43.2	−24.9	50.0	210	0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	216			
240.3	217.5	223.8	0.0	0.875	1.0	55.2	−25.0	−43.9	50.5	240.3	0.0	0.883	1.0	55.5	−25.2	−43.8	50.7	240	0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	217	0.0	1.0	0.819	57.2	−36.4	−34.4	50.3	223			
245.8	225.0	230.6	0.0	0.75	1.0	51.7	−19.7	−44.1	48.3	245.8	0.0	0.75	1.0	51.8	−19.7	−44.1	48.4	245	0.0	1.0	0.842	57.4	−35.6	−35.6	50.4	225	0.0	1.0	0.922	57.9	−32.5	−39.7	51.4	230			
252.5	232.5	237.5	0.0	0.625	1.0	47.7	−13.9	−44.4	46.5	252.5	0.0	0.633	1.0	48.0	−14.2	−44.3	46.7	252	0.0	1.0	0.941	58.0	−31.7	−40.7	51.7	232	0.0	0.974	1.0	57.7	−28.3	−43.7	52.2	237			
262.3	240.0	244.3	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	0.5	1.0	42.8	−5.9	−44.9	45.4	262	0.0	0.886	1.0	55.5	−25.3	−43.8	50.7	240	0.0	0.785	1.0	52.7	−21.1	−44.1	49.0	244			
271.7	247.5	251.2	0.0	0.375	1.0	37.9	1.3	−45.4	45.4	271.7	0.0	0.383	1.0	38.3	0.9	−45.3	45.4	271	0.0	0.729	1.0	51.1	−18.7	−44.2	48.1	247	0.0	0.659	1.0	48.9	−15.4	−44.3	47.1	250			
281.6	255.0	258.0	0.0	0.25	1.0	33.3	9.4	−46.0	47.0	281.6	0.0	0.25	1.0	33.3	9.5	−45.9	47.0	281	0.0	0.594	1.0	46.5	−11.9	−44.6	46.3	255	0.0	0.555	1.0	45.0	−9.4	−44.8	45.9	258			
290.3	262.5	264.8	0.0	0.125	1.0	28.6	17.4	−46.9	50.1	290.3	0.0	0.133	1.0	28.9	16.9	−46.9	49.9	289	0.0	0.505	1.0	43.0	−6.2	−44.9	45.5	262	0.0	0.472	1.0	41.7	−4.3	−45.1	45.4	264			
296.4	270.0	271.7	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	25.3	23.5	−47.3	52.9	296	0.0	0.398	1.0	38.8	0.0	−45.3	45.4	270	0.0	0.375	1.0	37.9	1.4	−45.3	45.5	271			
306.7	277.5	278.8	0.125	0.0	1.0	29.3	31.8	−42.6	53.1	306.7	0.117	0.0	1.0	29.1	31.3	−42.9	53.1	306	0.0	0.309	1.0	35.5	5.6	−45.8	46.3	277	0.0	0.291	1.0	34.9	6.8	−45.9	46.5	278			
312.7	285.0	285.9	0.25	0.0	1.0	31.5	36.2	−39.2	53.4	312.7	0.25	0.0	1.0	31.6	36.3	−39.1	53.4	312	0.0	0.202	1.0	31.5	12.5	−46.5	48.2	285	0.0	0.188	1.0	31.0	13.3	−46.6	48.5	285			
326.7	292.5	293.0	0.375	0.0	1.0	33.8	47.6	−31.2	56.9	326.7	0.367	0.0	1.0	33.7	46.9	−31.8	56.7	325	0.0	0.091	1.0	27.7	19.1	−47.1	50.9	292	0.0	0.079	1.0	27.4	19.6	−47.1	51.1	292			
333.9	300.0	300.1	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.5	0.0	1.0	37.9	53.8	−26.3	59.9	333	0.043	0.0	1.0	26.7	26.5	−45.8	53.0	300	0.046	0.0	1.0	26.8	26.6	−45.7	53.0	300			
339.6	307.5	307.2	0.625	0.0	1.0	40.9	58.8	−21.8	62.7	339.6	0.617	0.0	1.0	40.8	58.5	−22.1	62.6	339	0.13	0.0	1.0	29.4	32.0	−42.4	53.2	307	0.126	0.0	1.0	29.4	31.9	−42.5	53.2	306			
347.2	315.0	314.3	0.75	0.0	1.0	43.1	65.9	−14.9	67.6	347.2	0.75	0.0	1.0	43.1	66.0	−14.9	67.6	347	0.27	0.0	1.0	31.9	38.2	−38.1	54.0	315	0.265	0.0	1.0	31.8	37.7	−38.4	53.8	314			
350.2	322.5	321.4	0.875	0.0	1.0	45.9	69.4	−11.9	70.5	350.2	0.867	0.0	1.0	45.8	69.3	−12.0	70.3	350	0.333	0.0	1.0	33.1	43.9	−34.2	55.8	322	0.324	0.0	1.0	32.9	43.2	−34.8	55.5	321			
353.3	330.0	328.6	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	1.0	0.0	1.0	48.3	72.9	−8.5	73.4	353	0.432	0.0	1.0	35.7	50.5	−29.1	58.3	330	0.407	0.0	1.0	34.9	49.3	−30.0	57.7	328			
356.5	337.5	335.7	1.0	0.0	0.875	48.2	71.6	−4.3	71.7	356.5	1.0	0.0	0.883	48.3	71.7	−4.5	71.9	356	0.567	0.0	1.0	39.6	56.6	−23.9	61.5	337	0.529	0.0	1.0	38.6	55.0	−25.3	60.6	335			
360.3	345.0	342.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3	1.0	0.0	0.75	48.2	70.5	0.4	70.5	360	0.713	0.0	1.0	42.5	64.0	−17.0	66.2	345	0.678	0.0	1.0	41.9	61.9	−19.0	64.8	342			
365.8	352.5	349.9	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8	1.0	0.0	0.633	48.1	69.1	6.7	69.4	365	0.946	0.0	1.0	47.3	71.4	−9.9	72.1	352	0.842	0.0	1.0	45.2	68.6	−12.7	69.8	349			
371.6	360.0	357.0	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6	1.0	0.0	0.5	47.8	67.7	14.0	69.2	371	1.0	0.0	0.761	48.2	70.6	0.0	70.6	360	0.949	0.0	1.0	47.3	71.5	−9.9	72.2	352			
378.2	367.5	364.1	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2	1.0	0.0	0.383	47.8	66.3	21.3	69.7	377	1.0	0.0	0.601	48.0	68.8	8.4	69.3	367	1.0	0.0	0.765	48.2	70.6	−0.1	70.6	359			
383.9	375.0	371.2	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9	1.0	0.0	0.25	47.7	65.1	28.9	71.2	383	1.0	0.0	0.437	47.8	67.1	18.0	69.4	375	1.0	0.0	0.563	47.9	68.4	10.6	69.2	368			
388.6	382.5	378.3	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6	1.0	0.0	0.133	47.5	64.5	34.8	73.3	388	1.0	0.0	0.293	47.7	65.5	26.5	70.7	382	1.0	0.0	0.408	47.8	66.7	19.8	69.6	376			
392.8	390.0	385.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8	1.0	0.0	0.0	47.4	63.9	41.2	76.0	392	1.0	0.0	0.084	47.4	64.3	37.1	74.3	390	1.0	0.0	0.209	47.6	64.9	30.9	71.9	385			

TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
48 step hue circles; *rgb−LabCh**tables

input: *rgb/cmyk* −> *rgb*$_d$
output: transfer to *cmyk*$_d$

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_S$: $h_{ab,s}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**			*LAB** dd64M					*rgb**			*LAB** dex361M					rgb*$_{dd}$	*rgb**$_{ds}$	*rgb**$_{de}$
32.8	30.0	25.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	32.8	1.0	0.0	0.209	47.6	64.9	30.9	71.9	25			
40.4	37.5	33.8	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4	40.4	1.0	0.007	0.0	47.6	63.4	41.6	75.8	33			
50.0	45.0	42.1	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	50.0	1.0	0.148	0.0	52.1	53.0	48.1	71.6	42			
61.1	52.5	50.5	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1	61.1	1.0	0.25	0.0	56.0	44.5	53.0	69.2	49			
71.4	60.0	58.8	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	71.4	1.0	0.35	0.0	60.3	35.6	59.0	69.0	58			
81.7	67.5	67.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7	81.7	1.0	0.442	0.0	64.5	27.8	64.5	70.2	66			
88.5	75.0	75.6	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	88.5	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75			
93.6	82.5	83.9	1.0	0.875	0.0	84.2	−5.7	89.4	89.6	93.6	93.6	1.0	0.655	0.0	75.0	9.0	77.9	78.5	83			
97.1	90.0	92.3	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	97.1	1.0	0.842	0.0	83.0	−3.4	87.8	87.9	92			
100.3	97.5	101.0	0.875	1.0	0.0	85.8	−16.2	88.6	90.0	100.3	100.3	0.871	1.0	0.0	85.8	−16.2	88.4	89.9	100			
103.3	105.0	109.7	0.75	1.0	0.0	82.9	−19.7	83.0	85.3	103.3	103.3	0.599	1.0	0.0	76.2	−26.6	74.3	78.9	109			
108.3	112.5	118.5	0.625	1.0	0.0	77.0	−25.2	76.3	80.4	108.3	108.3	0.455	1.0	0.0	71.4	−33.4	63.2	71.6	117			
115.3	120.0	127.2	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	115.3	0.327	1.0	0.0	65.8	−41.3	54.4	68.4	127			
122.4	127.5	136.0	0.375	1.0	0.0	68.9	−36.9	58.1	68.8	122.4	122.4	0.244	1.0	0.0	60.7	−48.1	47.5	67.6	135			
134.9	135.0	144.7	0.25	1.0	0.0	60.8	−47.8	47.8	67.6	134.9	134.9	0.124	1.0	0.0	57.4	−54.9	38.9	67.4	144			
144.6	142.5	153.4	0.125	1.0	0.0	57.4	−54.9	38.9	67.3	144.6	144.6	0.047	1.0	0.0	54.0	−63.8	32.7	71.7	152			
157.7	150.0	162.2	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	157.7	0.0	1.0	0.093	52.4	−67.0	21.5	70.5	162			
163.7	157.5	169.0	0.0	1.0	0.125	52.5	−66.4	19.3	69.1	163.7	163.7	0.0	1.0	0.209	53.1	−63.5	12.8	64.9	168			
170.9	165.0	175.9	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170.9	170.9	0.0	1.0	0.311	53.7	−59.7	4.3	59.9	175			
181.0	172.5	182.7	0.0	1.0	0.375	54.1	−56.9	−1.0	56.9	181.0	181.0	0.0	1.0	0.387	54.2	−56.4	−2.2	56.5	182			
193.5	180.0	189.6	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	193.5	0.0	1.0	0.46	54.6	−53.1	−8.9	54.0	189			
205.9	187.5	196.4	0.0	1.0	0.625	55.8	−45.1	−21.9	50.1	205.9	205.9	0.0	1.0	0.524	55.0	−50.0	−14.3	52.1	195			
218.4	195.0	203.2	0.0	1.0	0.75	56.7	−38.9	−30.9	49.7	218.4	218.4	0.0	1.0	0.598	55.6	−46.5	−19.9	50.7	203			
227.3	202.5	210.1	0.0	1.0	0.875	57.5	−34.3	−37.2	50.6	227.3	227.3	0.0	1.0	0.662	56.1	−43.4	−24.7	50.1	209			
236.1	210.0	216.9	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	236.1	0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	216			
240.3	217.5	223.8	0.0	0.875	1.0	55.2	−25.0	−43.9	50.5	240.3	240.3	0.0	1.0	0.819	57.2	−36.4	−34.4	50.3	223			
245.8	225.0	230.6	0.0	0.75	1.0	51.7	−19.7	−44.1	48.3	245.8	245.8	0.0	1.0	0.922	57.9	−32.5	−39.7	51.4	230			
252.5	232.5	237.5	0.0	0.625	1.0	47.7	−13.9	−44.4	46.5	252.5	252.5	0.0	0.974	1.0	57.7	−28.3	−43.7	52.2	237			
262.3	240.0	244.3	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	262.3	0.0	0.785	1.0	52.7	−21.1	−44.1	49.0	244			
271.7	247.5	251.2	0.0	0.375	1.0	37.9	1.3	−45.4	45.4	271.7	271.7	0.0	0.659	1.0	48.9	−15.4	−44.3	47.1	250			
281.6	255.0	258.0	0.0	0.25	1.0	33.3	9.4	−46.0	47.0	281.6	281.6	0.0	0.555	1.0	45.0	−9.4	−44.8	45.9	258			
290.3	262.5	264.8	0.0	0.125	1.0	28.6	17.4	−46.9	50.1	290.3	290.3	0.0	0.472	1.0	41.7	−4.3	−45.1	45.4	264			
296.4	270.0	271.7	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	296.4	0.0	0.375	1.0	37.9	1.4	−45.3	45.5	271			
306.7	277.5	278.8	0.125	0.0	1.0	29.3	31.8	−42.6	53.1	306.7	306.7	0.0	0.291	1.0	34.9	6.8	−45.9	46.5	278			
312.7	285.0	285.9	0.25	0.0	1.0	31.5	36.2	−39.2	53.4	312.7	312.7	0.0	0.188	1.0	31.0	13.3	−46.6	48.5	285			
326.7	292.5	293.0	0.375	0.0	1.0	33.8	47.6	−31.2	56.9	326.7	326.7	0.0	0.079	1.0	27.4	19.6	−47.1	51.1	292			
333.9	300.0	300.1	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	333.9	0.046	0.0	1.0	26.8	26.6	−45.7	53.0	300			
339.6	307.5	307.2	0.625	0.0	1.0	40.9	58.8	−21.8	62.7	339.6	339.6	0.126	0.0	1.0	29.4	31.9	−42.5	53.2	306			
347.2	315.0	314.3	0.75	0.0	1.0	43.1	65.9	−14.9	67.6	347.2	347.2	0.265	0.0	1.0	31.8	37.7	−38.4	53.8	314			
350.2	322.5	321.4	0.875	0.0	1.0	45.9	69.4	−11.9	70.5	350.2	350.2	0.324	0.0	1.0	32.9	43.2	−34.8	55.5	321			
353.3	330.0	328.6	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	353.3	0.407	0.0	1.0	34.9	49.3	−30.0	57.7	328			
356.5	337.5	335.7	1.0	0.0	0.875	48.2	71.6	−4.3	71.7	356.5	356.5	0.529	0.0	1.0	38.6	55.0	−25.3	60.6	335			
360.3	345.0	342.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3	360.3	0.678	0.0	1.0	41.9	61.9	−19.0	64.8	342			
365.8	352.5	349.9	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8	365.8	0.842	0.0	1.0	45.2	68.6	−12.7	69.8	349			
371.6	360.0	357.0	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6	371.6	0.949	0.0	1.0	47.3	71.5	−9.9	72.2	352			
378.2	367.5	364.1	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2	378.2	1.0	0.0	0.765	48.2	70.6	−0.1	70.6	359			
383.9	375.0	371.2	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9	383.9	1.0	0.0	0.563	47.9	68.4	10.6	69.2	368			
388.6	382.5	378.3	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6	388.6	1.0	0.0	0.408	47.8	66.7	19.8	69.6	376			
392.8	390.0	385.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8	392.8	1.0	0.0	0.209	47.6	64.9	30.9	71.9	385			



QE04 00L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb*dd361M*			*LAB*ddx361Mi (x=LabCh)*					R_d	*rgb*ds361Mi*			*LAB*dsx361Mi (x=LabCh)*					R_s	*rgb*dd361Mi*			*rgb*de361Mi*			*LAB*dex361Mi (x=LabCh)*					R_e	*rgb*dd361Mi*		
32	30	25	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32		1.0	0.0	0.084	47.4	64.3	37.1	74.3	30		1.0	0.0	0.0	1.0	0.0	0.209	47.6	64.9	30.9	71.9	25		1.0	0.0	0.0
33	31	26	1.0	0.016	0.0	47.8	62.7	42.0	75.4	33		1.0	0.0	0.054	47.4	64.2	38.6	74.9	31		1.0	0.017	0.0	1.0	0.0	0.18	47.6	64.8	32.4	72.5	26		1.0	0.017	0.0
34	32	27	1.0	0.033	0.0	48.3	61.5	42.8	74.9	34		1.0	0.0	0.025	47.4	64.0	40.0	75.5	32		1.0	0.033	0.0	1.0	0.0	0.15	47.5	64.6	33.9	73.0	27		1.0	0.033	0.0
35	33	28	1.0	0.05	0.0	48.9	60.3	43.6	74.4	35		1.0	0.003	0.0	47.5	63.7	41.3	75.9	33		1.0	0.05	0.0	1.0	0.0	0.119	47.5	64.4	35.5	73.6	28		1.0	0.05	0.0
36	34	29	1.0	0.066	0.0	49.4	59.1	44.3	73.9	36		1.0	0.019	0.0	48.0	62.5	42.2	75.4	34		1.0	0.067	0.0	1.0	0.0	0.086	47.4	64.3	37.0	74.2	29		1.0	0.067	0.0
37	35	31	1.0	0.083	0.0	49.9	57.9	45.1	73.4	37		1.0	0.036	0.0	48.5	61.4	43.0	74.9	35		1.0	0.083	0.0	1.0	0.0	0.053	47.4	64.2	38.6	74.9	31		1.0	0.083	0.0
38	36	32	1.0	0.1	0.0	50.4	56.7	45.7	72.9	38		1.0	0.052	0.0	49.0	60.2	43.7	74.4	36		1.0	0.1	0.0	1.0	0.0	0.02	47.4	64.0	40.2	75.6	32		1.0	0.1	0.0
39	37	33	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39		1.0	0.069	0.0	49.5	59.0	44.5	73.9	37		1.0	0.117	0.0	1.0	0.007	0.0	47.6	63.4	41.6	75.8	33		1.0	0.117	0.0
41	38	34	1.0	0.133	0.0	51.5	54.2	47.2	71.9	41		1.0	0.085	0.0	50.0	57.8	45.2	73.4	38		1.0	0.133	0.0	1.0	0.026	0.0	48.2	62.1	42.5	75.2	34		1.0	0.133	0.0
42	39	35	1.0	0.15	0.0	52.1	52.8	48.1	71.5	42		1.0	0.101	0.0	50.5	56.6	45.9	72.9	39		1.0	0.15	0.0	1.0	0.044	0.0	48.7	60.8	43.4	74.6	35		1.0	0.15	0.0
43	40	36	1.0	0.166	0.0	52.8	51.4	49.0	71.1	43		1.0	0.118	0.0	51.0	55.4	46.5	72.4	40		1.0	0.167	0.0	1.0	0.062	0.0	49.3	59.5	44.2	74.1	36		1.0	0.167	0.0
44	41	37	1.0	0.183	0.0	53.4	50.1	49.9	70.7	44		1.0	0.132	0.0	51.5	54.3	47.2	72.0	41		1.0	0.183	0.0	1.0	0.081	0.0	49.8	58.1	45.0	73.5	37		1.0	0.183	0.0
46	42	38	1.0	0.2	0.0	54.1	48.7	50.7	70.3	46		1.0	0.145	0.0	52.0	53.2	47.9	71.7	42		1.0	0.2	0.0	1.0	0.099	0.0	50.4	56.8	45.8	72.9	38		1.0	0.2	0.0
47	43	39	1.0	0.216	0.0	54.7	47.3	51.5	69.9	47		1.0	0.158	0.0	52.5	52.2	48.7	71.3	43		1.0	0.217	0.0	1.0	0.117	0.0	51.0	55.5	46.5	72.4	39		1.0	0.217	0.0
48	44	41	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48		1.0	0.172	0.0	53.0	51.1	49.3	71.0	44		1.0	0.233	0.0	1.0	0.133	0.0	51.5	54.2	47.3	71.9	41		1.0	0.233	0.0
50	45	42	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50		1.0	0.185	0.0	53.5	50.0	50.0	70.7	45		1.0	0.25	0.0	1.0	0.148	0.0	52.1	53.0	48.1	71.6	42		1.0	0.25	0.0
51	46	43	1.0	0.266	0.0	56.7	43.0	54.1	69.1	51		1.0	0.198	0.0	54.0	48.9	50.7	70.4	46		1.0	0.267	0.0	1.0	0.162	0.0	52.7	51.9	48.9	71.2	43		1.0	0.267	0.0
52	47	44	1.0	0.283	0.0	57.4	41.5	55.1	69.1	52		1.0	0.211	0.0	54.5	47.8	51.3	70.1	47		1.0	0.283	0.0	1.0	0.177	0.0	53.2	50.6	49.6	70.9	44		1.0	0.283	0.0
54	48	45	1.0	0.3	0.0	58.2	40.1	56.2	69.0	54		1.0	0.224	0.0	55.0	46.7	51.9	69.8	48		1.0	0.3	0.0	1.0	0.191	0.0	53.8	49.4	50.4	70.6	45		1.0	0.3	0.0
55	49	46	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55		1.0	0.237	0.0	55.5	45.6	52.4	69.5	49		1.0	0.317	0.0	1.0	0.206	0.0	54.3	48.2	51.1	70.2	46		1.0	0.317	0.0
57	50	47	1.0	0.333	0.0	59.6	37.1	58.1	68.9	57		1.0	0.25	0.0	56.0	44.5	53.0	69.2	50		1.0	0.333	0.0	1.0	0.22	0.0	54.9	47.0	51.7	69.9	47		1.0	0.333	0.0
58	51	48	1.0	0.35	0.0	60.3	35.5	59.0	68.9	58		1.0	0.261	0.0	56.5	43.5	53.7	69.2	51		1.0	0.35	0.0	1.0	0.235	0.0	55.5	45.7	52.4	69.5	48		1.0	0.35	0.0
60	52	49	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60		1.0	0.272	0.0	57.0	42.6	54.5	69.1	52		1.0	0.367	0.0	1.0	0.25	0.0	56.0	44.5	53.0	69.2	49		1.0	0.367	0.0
61	53	51	1.0	0.383	0.0	61.8	32.5	60.8	69.0	61		1.0	0.283	0.0	57.5	41.6	55.2	69.1	53		1.0	0.383	0.0	1.0	0.262	0.0	56.6	43.4	53.8	69.1	51		1.0	0.383	0.0
63	54	52	1.0	0.4	0.0	62.5	31.2	61.9	69.3	63		1.0	0.295	0.0	58.0	40.6	55.9	69.1	54		1.0	0.4	0.0	1.0	0.275	0.0	57.1	42.4	54.6	69.1	52		1.0	0.4	0.0
64	55	53	1.0	0.416	0.0	63.3	29.8	62.9	69.6	64		1.0	0.306	0.0	58.5	39.6	56.6	69.1	55		1.0	0.417	0.0	1.0	0.287	0.0	57.6	41.3	55.4	69.1	53		1.0	0.417	0.0
65	56	54	1.0	0.433	0.0	64.1	28.4	63.9	70.0	65		1.0	0.317	0.0	58.9	38.6	57.2	69.0	56		1.0	0.433	0.0	1.0	0.3	0.0	58.2	40.2	56.2	69.1	54		1.0	0.433	0.0
67	57	55	1.0	0.45	0.0	64.9	27.0	64.9	70.3	67		1.0	0.328	0.0	59.4	37.6	57.9	69.0	57		1.0	0.45	0.0	1.0	0.312	0.0	58.7	39.0	56.9	69.0	55		1.0	0.45	0.0
68	58	56	1.0	0.466	0.0	65.6	25.6	65.8	70.6	68		1.0	0.34	0.0	59.9	36.6	58.5	69.0	58		1.0	0.467	0.0	1.0	0.325	0.0	59.3	37.9	57.7	69.0	56		1.0	0.467	0.0
70	59	57	1.0	0.483	0.0	66.4	24.1	66.7	70.9	70		1.0	0.351	0.0	60.4	35.5	59.1	69.0	59		1.0	0.483	0.0	1.0	0.337	0.0	59.8	36.8	58.4	69.0	57		1.0	0.483	0.0
71	60	58	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71		1.0	0.362	0.0	60.9	34.5	59.7	68.9	60		1.0	0.5	0.0	1.0	0.35	0.0	60.3	35.6	59.0	69.0	58		1.0	0.5	0.0
72	61	60	1.0	0.516	0.0	68.0	21.2	68.8	72.0	72		1.0	0.373	0.0	61.4	33.4	60.3	68.9	61		1.0	0.517	0.0	1.0	0.362	0.0	60.9	34.5	59.7	68.9	60		1.0	0.517	0.0
74	62	61	1.0	0.533	0.0	68.9	19.7	70.0	72.8	74		1.0	0.385	0.0	61.9	32.4	61.0	69.1	62		1.0	0.533	0.0	1.0	0.375	0.0	61.4	33.3	60.3	68.9	61		1.0	0.533	0.0
75	63	62	1.0	0.55	0.0	69.7	18.2	71.2	73.5	75		1.0	0.397	0.0	62.5	31.5	61.8	69.3	63		1.0	0.55	0.0	1.0	0.388	0.0	62.0	32.2	61.2	69.1	62		1.0	0.55	0.0
76	64	63	1.0	0.566	0.0	70.6	16.7	72.4	74.3	76		1.0	0.409	0.0	63.0	30.5	62.5	69.6	64		1.0	0.567	0.0	1.0	0.402	0.0	62.7	31.1	62.0	69.4	63		1.0	0.567	0.0
78	65	64	1.0	0.583	0.0	71.5	15.1	73.5	75.0	78		1.0	0.421	0.0	63.6	29.5	63.2	69.8	65		1.0	0.583	0.0	1.0	0.415	0.0	63.3	30.0	62.9	69.7	64		1.0	0.583	0.0
79	66	65	1.0	0.6	0.0	72.3	13.5	74.6	75.8	79		1.0	0.434	0.0	64.2	28.5	64.0	70.0	66		1.0	0.6	0.0	1.0	0.428	0.0	63.9	28.9	63.7	69.9	65		1.0	0.6	0.0
81	67	66	1.0	0.616	0.0	73.2	11.8	75.6	76.6	81		1.0	0.446	0.0	64.7	27.4	64.7	70.3	67		1.0	0.617	0.0	1.0	0.442	0.0	64.5	27.8	64.5	70.2	66		1.0	0.617	0.0
82	68	67	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82		1.0	0.458	0.0	65.3	26.4	65.4	70.5	68		1.0	0.633	0.0	1.0	0.455	0.0	65.2	26.6	65.2	70.4	67		1.0	0.633	0.0
83	69	68	1.0	0.65	0.0	74.7	9.3	77.6	78.2	83		1.0	0.47	0.0	65.8	25.3	66.0	70.7	69		1.0	0.65	0.0	1.0	0.469	0.0	65.8	25.4	66.0	70.7	68		1.0	0.65	0.0
84	70	70	1.0	0.666	0.0	75.5	8.2	78.6	79.0	84		1.0	0.482	0.0	66.4	24.3	66.7	70.9	70		1.0	0.667	0.0	1.0	0.482	0.0	66.4	24.2	66.7	71.0	70		1.0	0.667	0.0
84	71	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84		1.0	0.494	0.0	66.9	23.2	67.3	71.2	71		1.0	0.683	0.0	1.0	0.496	0.0	67.0	23.0	67.4	71.2	71		1.0	0.683	0.0
85	72	72	1.0	0.7	0.0	77.0	5.8	80.4	80.6	85		1.0	0.506	0.0	67.5	22.1	68.1	71.6	72		1.0	0.7	0.0	1.0	0.509	0.0	67.7	21.9	68.3	71.7	72		1.0	0.7	0.0
86	73	73	1.0	0.716	0.0	77.7	4.5	81.3	81.4	86		1.0	0.518	0.0	68.2	21.1	69.0	72.1	73		1.0	0.717	0.0	1.0	0.523	0.0	68.4	20.7	69.3	72.3	73		1.0	0.717	0.0
87	74	74	1.0	0.733	0.0	78.5	3.3	82.2	82.3	87		1.0	0.531	0.0	68.8	20.0	69.9	72.7	74		1.0	0.733	0.0	1.0	0.537	0.0	69.1	19.5	70.3	73.0	74		1.0	0.733	0.0
88	75	75	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88		1.0	0.543	0.0	69.4	19.0	70.7	73.2	75		1.0	0.75	0.0	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75		1.0	0.75	0.0

*rgb*dd* *rgb*ds* *rgb*de*

1−003930−L0 QE040−70 LAB*la0, YN=0%, XYZnw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*nw=17.7, 0.0, 0.0, 95.5, 0.0, 0.0 Output: Offset standard print; separation cmyn6*, D65, page 10/33

TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
48 step hue circles; *rgb−LabCh**tables

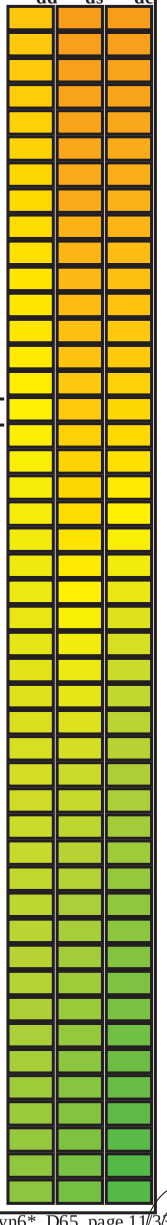
input: *rgb/cmyk* −> *rgb*$_d$
output: transfer to *cmyk*$_d$

1−003930−F0

QE04 00L

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**dd361M			*LAB**ddx361Mi (x=LabCh)					*rgb**ds361Mi			*LAB**dsx361Mi (x=LabCh)					*rgb**dd361Mi			*rgb**de361Mi			*LAB**dex361Mi (x=LabCh)					*rgb**dd361Mi			*rgb**$_{dd}$ *rgb**$_{ds}$ *rgb**$_{de}$
88	75	75	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88	1.0	0.543	0.0	69.4	19.0	70.7	73.2	75	1.0	0.75	0.0	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75	1.0	0.75	0.0	
89	76	76	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89	1.0	0.555	0.0	70.0	17.9	71.6	73.8	76	1.0	0.767	0.0	1.0	0.564	0.0	70.5	17.0	72.2	74.2	76	1.0	0.767	0.0	
89	77	77	1.0	0.783	0.0	80.6	0.0	84.8	84.8	89	1.0	0.567	0.0	70.7	16.7	72.4	74.3	77	1.0	0.783	0.0	1.0	0.577	0.0	71.2	15.8	73.1	74.8	77	1.0	0.783	0.0	
90	78	78	1.0	0.8	0.0	81.2	−0.9	85.7	85.7	90	1.0	0.579	0.0	71.3	15.6	73.3	74.9	78	1.0	0.8	0.0	1.0	0.591	0.0	71.9	14.5	74.0	75.4	78	1.0	0.8	0.0	
91	79	80	1.0	0.816	0.0	81.9	−1.9	86.5	86.5	91	1.0	0.591	0.0	71.9	14.4	74.1	75.5	79	1.0	0.817	0.0	1.0	0.604	0.0	72.6	13.1	74.9	76.0	80	1.0	0.817	0.0	
91	80	81	1.0	0.833	0.0	82.6	−3.0	87.4	87.4	91	1.0	0.604	0.0	72.5	13.2	74.9	76.0	80	1.0	0.833	0.0	1.0	0.618	0.0	73.3	11.8	75.8	76.7	81	1.0	0.833	0.0	
92	81	82	1.0	0.85	0.0	83.2	−4.0	88.2	88.3	92	1.0	0.616	0.0	73.2	12.0	75.6	76.6	81	1.0	0.85	0.0	1.0	0.635	0.0	74.1	10.4	76.8	77.5	82	1.0	0.85	0.0	
93	82	83	1.0	0.866	0.0	83.9	−5.1	89.0	89.2	93	1.0	0.629	0.0	73.8	10.7	76.5	77.2	82	1.0	0.867	0.0	1.0	0.655	0.0	75.0	9.0	77.9	78.5	83	1.0	0.867	0.0	
93	83	84	1.0	0.883	0.0	84.5	−6.1	89.8	90.0	93	1.0	0.648	0.0	74.7	9.5	77.5	78.1	83	1.0	0.883	0.0	1.0	0.675	0.0	75.9	7.6	79.1	79.5	84	1.0	0.883	0.0	
94	84	85	1.0	0.9	0.0	85.1	−6.9	90.6	90.8	94	1.0	0.666	0.0	75.5	8.3	78.6	79.0	84	1.0	0.9	0.0	1.0	0.696	0.0	76.8	6.1	80.2	80.5	85	1.0	0.9	0.0	
94	85	86	1.0	0.916	0.0	85.6	−7.7	91.3	91.7	94	1.0	0.684	0.0	76.3	7.0	79.6	79.9	85	1.0	0.917	0.0	1.0	0.716	0.0	77.8	4.6	81.3	81.5	86	1.0	0.917	0.0	
95	86	87	1.0	0.933	0.0	86.1	−8.5	92.1	92.5	95	1.0	0.703	0.0	77.1	5.6	80.6	80.8	86	1.0	0.933	0.0	1.0	0.736	0.0	78.7	3.1	82.4	82.5	87	1.0	0.933	0.0	
95	87	88	1.0	0.95	0.0	86.7	−9.3	92.9	93.3	95	1.0	0.721	0.0	78.0	4.3	81.6	81.7	87	1.0	0.95	0.0	1.0	0.759	0.0	79.7	1.5	83.6	83.6	88	1.0	0.95	0.0	
96	88	90	1.0	0.966	0.0	87.2	−10.2	93.6	94.2	96	1.0	0.739	0.0	78.8	2.9	82.5	82.6	88	1.0	0.967	0.0	1.0	0.787	0.0	80.8	0.0	85.0	85.0	90	1.0	0.967	0.0	
96	89	91	1.0	0.983	0.0	87.8	−11.1	94.3	95.0	96	1.0	0.76	0.0	79.7	1.5	83.6	83.6	89	1.0	0.983	0.0	1.0	0.814	0.0	81.9	−1.7	86.5	86.5	91	1.0	0.983	0.0	
97	90	92	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97 Y_d	1.0	0.785	0.0	80.7	0.0	84.9	84.9	90 Y_s	1.0	1.0	0.0	1.0	0.842	0.0	83.0	−3.4	87.8	87.9	92 Y_e	1.0	1.0	0.0	
97	91	93	0.983	1.0	0.0	88.0	−12.5	94.2	95.1	97	1.0	0.809	0.0	81.7	−1.4	86.2	86.2	91	0.983	1.0	0.0	1.0	0.871	0.0	84.1	−5.3	89.2	89.4	93	0.983	1.0	0.0	
98	92	94	0.966	1.0	0.0	87.7	−13.1	93.4	94.3	98	1.0	0.834	0.0	82.7	−3.0	87.5	87.5	92	0.967	1.0	0.0	1.0	0.91	0.0	85.4	−7.3	91.1	91.4	94	0.967	1.0	0.0	
98	93	95	0.95	1.0	0.0	87.3	−13.7	92.5	93.5	98	1.0	0.859	0.0	83.6	−4.5	88.7	88.8	93	0.95	1.0	0.0	1.0	0.951	0.0	86.8	−9.4	93.0	93.4	95	0.95	1.0	0.0	
98	94	96	0.933	1.0	0.0	87.0	−14.3	91.6	92.7	98	1.0	0.887	0.0	84.7	−6.2	90.0	90.3	94	0.933	1.0	0.0	1.0	0.993	0.0	88.1	−11.5	94.8	95.5	96	0.933	1.0	0.0	
99	95	98	0.916	1.0	0.0	86.6	−14.8	90.8	92.0	99	1.0	0.923	0.0	85.8	−7.9	91.7	92.0	95	0.917	1.0	0.0	0.963	1.0	0.0	87.6	−13.2	93.2	94.1	98	0.917	1.0	0.0	
99	96	99	0.9	1.0	0.0	86.3	−15.4	89.9	91.2	99	1.0	0.958	0.0	87.0	−9.7	93.3	93.8	96	0.9	1.0	0.0	0.917	1.0	0.0	86.7	−14.8	90.8	92.0	99	0.9	1.0	0.0	
100	97	100	0.883	1.0	0.0	86.0	−15.9	89.0	90.4	100	1.0	0.994	0.0	88.2	−11.5	94.8	95.6	97	0.883	1.0	0.0	0.871	1.0	0.0	85.8	−16.2	88.4	89.9	100	0.883	1.0	0.0	
100	98	101	0.866	1.0	0.0	85.6	−16.4	88.2	89.7	100	0.968	1.0	0.0	87.7	−13.0	93.5	94.4	98	0.867	1.0	0.0	0.823	1.0	0.0	84.7	−17.7	86.3	88.1	101	0.867	1.0	0.0	
100	99	102	0.85	1.0	0.0	85.2	−16.9	87.4	89.1	100	0.929	1.0	0.0	86.9	−14.4	91.4	92.6	99	0.85	1.0	0.0	0.774	1.0	0.0	83.5	−19.0	84.1	86.2	102	0.85	1.0	0.0	
101	100	103	0.833	1.0	0.0	84.8	−17.4	86.7	88.4	101	0.89	1.0	0.0	86.2	−15.7	89.4	90.8	100	0.833	1.0	0.0	0.735	1.0	0.0	82.3	−20.3	82.2	84.7	103	0.833	1.0	0.0	
101	101	105	0.816	1.0	0.0	84.5	−17.9	86.0	87.8	101	0.849	1.0	0.0	85.3	−16.9	87.5	89.1	101	0.817	1.0	0.0	0.706	1.0	0.0	80.9	−21.7	80.7	83.6	105	0.817	1.0	0.0	
102	102	106	0.8	1.0	0.0	84.1	−18.3	85.2	87.2	102	0.807	1.0	0.0	84.3	−18.1	85.6	87.5	102	0.8	1.0	0.0	0.676	1.0	0.0	79.5	−23.0	79.1	82.4	106	0.8	1.0	0.0	
102	103	107	0.783	1.0	0.0	83.7	−18.8	84.5	86.5	102	0.765	1.0	0.0	83.3	−19.2	83.7	85.9	103	0.783	1.0	0.0	0.647	1.0	0.0	78.1	−24.3	77.5	81.3	107	0.783	1.0	0.0	
102	104	108	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102	0.734	1.0	0.0	82.2	−20.4	82.2	84.7	104	0.767	1.0	0.0	0.62	1.0	0.0	76.9	−25.5	75.9	80.1	108	0.767	1.0	0.0	
103	105	109	0.75	1.0	0.0	82.9	−19.7	83.0	85.3	103	0.709	1.0	0.0	81.0	−21.6	80.9	83.7	105	0.75	1.0	0.0	0.599	1.0	0.0	76.2	−26.6	74.3	78.9	109	0.75	1.0	0.0	
104	106	110	0.733	1.0	0.0	82.2	−20.5	82.1	84.6	104	0.684	1.0	0.0	79.9	−22.7	79.5	82.7	106	0.733	1.0	0.0	0.578	1.0	0.0	75.5	−27.7	72.6	77.7	110	0.733	1.0	0.0	
104	107	112	0.716	1.0	0.0	81.4	−21.3	81.2	84.0	104	0.658	1.0	0.0	78.7	−23.8	78.2	81.7	107	0.717	1.0	0.0	0.558	1.0	0.0	74.8	−28.7	70.9	76.5	112	0.717	1.0	0.0	
105	108	113	0.7	1.0	0.0	80.6	−22.0	80.3	83.3	105	0.633	1.0	0.0	77.5	−24.9	76.8	80.8	108	0.7	1.0	0.0	0.537	1.0	0.0	74.1	−29.7	69.2	75.3	113	0.7	1.0	0.0	
106	109	114	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106	0.613	1.0	0.0	76.7	−25.9	75.4	79.7	109	0.683	1.0	0.0	0.517	1.0	0.0	73.4	−30.6	67.5	74.1	114	0.683	1.0	0.0	
106	110	115	0.666	1.0	0.0	79.0	−23.5	78.6	82.0	106	0.595	1.0	0.0	76.1	−26.8	74.0	78.7	110	0.667	1.0	0.0	0.496	1.0	0.0	72.7	−31.5	65.8	73.0	115	0.667	1.0	0.0	
107	111	116	0.65	1.0	0.0	78.2	−24.2	77.7	81.4	107	0.578	1.0	0.0	75.5	−27.7	72.5	77.7	111	0.65	1.0	0.0	0.475	1.0	0.0	72.0	−32.5	64.5	72.3	116	0.65	1.0	0.0	
107	112	117	0.633	1.0	0.0	77.4	−24.9	76.8	80.7	107	0.56	1.0	0.0	74.9	−28.6	71.1	76.6	112	0.633	1.0	0.0	0.455	1.0	0.0	71.4	−33.4	63.2	71.6	117	0.633	1.0	0.0	
108	113	119	0.616	1.0	0.0	76.8	−25.7	75.6	79.9	108	0.542	1.0	0.0	74.2	−29.4	69.6	75.6	113	0.617	1.0	0.0	0.434	1.0	0.0	70.7	−34.4	61.9	70.9	119	0.617	1.0	0.0	
109	114	120	0.6	1.0	0.0	76.2	−26.6	74.3	78.9	109	0.525	1.0	0.0	73.6	−30.2	68.1	74.6	114	0.6	1.0	0.0	0.413	1.0	0.0	70.1	−35.3	60.6	70.2	120	0.6	1.0	0.0	
110	115	121	0.583	1.0	0.0	75.6	−27.5	72.9	78.0	110	0.507	1.0	0.0	73.0	−31.0	66.7	73.5	115	0.583	1.0	0.0	0.393	1.0	0.0	69.5	−36.1	59.2	69.4	121	0.583	1.0	0.0	
111	116	122	0.566	1.0	0.0	75.0	−28.3	71.6	77.0	111	0.489	1.0	0.0	72.5	−31.8	65.4	72.8	116	0.567	1.0	0.0	0.373	1.0	0.0	68.8	−37.0	58.0	68.8	122	0.567	1.0	0.0	
112	117	123	0.55	1.0	0.0	74.5	−29.1	70.2	76.0	112	0.471	1.0	0.0	71.9	−32.7	64.3	72.2	117	0.55	1.0	0.0	0.362	1.0	0.0	68.1	−38.1	57.1	68.7	123	0.55	1.0	0.0	
113	118	124	0.533	1.0	0.0	73.9	−29.9	68.8	75.0	113	0.454	1.0	0.0	71.4	−33.5	63.2	71.5	118	0.533	1.0	0.0	0.35	1.0	0.0	67.3	−39.2	56.2	68.6	124	0.533	1.0	0.0	
114	119	126	0.516	1.0	0.0	73.3	−30.6	67.4	74.1	114	0.436	1.0	0.0	70.8	−34.3	62.0	70.9	119	0.517	1.0	0.0	0.338	1.0	0.0	66.6	−40.3	55.3	68.5	126	0.517	1.0	0.0	
115	120	127	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115	0.418	1.0	0.0	70.3	−35.1	60.9	70.3	120	0.5	1.0	0.0	0.327	1.0	0.0	65.8	−41.3	54.4	68.4	127	0.5	1.0	0.0	



QE04 00L

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb** dd361M			*LAB** ddx361Mi (x=LabCh)					*rgb** ds361Mi			*LAB** dsx361Mi (x=LabCh)					*rgb** dd361Mi			*rgb** de361Mi			*LAB** dex361Mi (x=LabCh)					*rgb** dd361Mi			*rgb** dd	*rgb** ds	*rgb** de
115	120	127	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115	0.418	1.0	0.0	70.3	−35.1	60.9	70.3	120	0.5	1.0	0.0	0.327	1.0	0.0	65.8	−41.3	54.4	68.4	127	0.5	1.0	0.0			
116	121	128	0.483	1.0	0.0	72.2	−32.1	65.0	72.5	116	0.4	1.0	0.0	69.7	−35.8	59.8	69.7	121	0.483	1.0	0.0	0.315	1.0	0.0	65.1	−42.3	53.5	68.3	128	0.483	1.0	0.0			
117	122	129	0.466	1.0	0.0	71.7	−32.9	63.9	71.9	117	0.383	1.0	0.0	69.2	−36.5	58.6	69.1	122	0.467	1.0	0.0	0.303	1.0	0.0	64.3	−43.3	52.5	68.2	129	0.467	1.0	0.0			
118	123	130	0.45	1.0	0.0	71.2	−33.7	62.9	71.4	118	0.369	1.0	0.0	68.5	−37.4	57.7	68.8	123	0.45	1.0	0.0	0.292	1.0	0.0	63.6	−44.3	51.5	68.1	130	0.45	1.0	0.0			
119	124	131	0.433	1.0	0.0	70.7	−34.5	61.8	70.8	119	0.359	1.0	0.0	67.9	−38.3	56.9	68.7	124	0.433	1.0	0.0	0.28	1.0	0.0	62.8	−45.3	50.6	67.9	131	0.433	1.0	0.0			
120	125	133	0.416	1.0	0.0	70.2	−35.2	60.8	70.2	120	0.349	1.0	0.0	67.3	−39.2	56.2	68.6	125	0.417	1.0	0.0	0.269	1.0	0.0	62.1	−46.2	49.5	67.8	133	0.417	1.0	0.0			
121	126	134	0.4	1.0	0.0	69.6	−35.9	59.7	69.6	121	0.339	1.0	0.0	66.6	−40.2	55.4	68.5	126	0.4	1.0	0.0	0.257	1.0	0.0	61.3	−47.2	48.5	67.7	134	0.4	1.0	0.0			
121	127	135	0.383	1.0	0.0	69.1	−36.5	58.6	69.1	121	0.329	1.0	0.0	66.0	−41.1	54.6	68.4	127	0.383	1.0	0.0	0.244	1.0	0.0	60.7	−48.1	47.5	67.6	135	0.383	1.0	0.0			
123	128	136	0.366	1.0	0.0	68.3	−37.7	57.4	68.7	123	0.319	1.0	0.0	65.3	−42.0	53.8	68.3	128	0.367	1.0	0.0	0.229	1.0	0.0	60.3	−49.0	46.5	67.6	136	0.367	1.0	0.0			
124	129	137	0.35	1.0	0.0	67.3	−39.2	56.2	68.6	124	0.309	1.0	0.0	64.7	−42.8	53.0	68.2	129	0.35	1.0	0.0	0.214	1.0	0.0	59.9	−49.9	45.4	67.6	137	0.35	1.0	0.0			
126	130	138	0.333	1.0	0.0	66.2	−40.8	54.9	68.4	126	0.299	1.0	0.0	64.1	−43.7	52.2	68.1	130	0.333	1.0	0.0	0.199	1.0	0.0	59.5	−50.8	44.4	67.5	138	0.333	1.0	0.0			
128	131	140	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128	0.289	1.0	0.0	63.4	−44.5	51.3	68.0	131	0.317	1.0	0.0	0.184	1.0	0.0	59.1	−51.7	43.3	67.5	140	0.317	1.0	0.0			
129	132	141	0.3	1.0	0.0	64.0	−43.7	52.2	68.1	129	0.28	1.0	0.0	62.8	−45.4	50.5	67.9	132	0.3	1.0	0.0	0.169	1.0	0.0	58.6	−52.5	42.2	67.5	141	0.3	1.0	0.0			
131	133	142	0.283	1.0	0.0	63.0	−45.1	50.8	67.9	131	0.27	1.0	0.0	62.1	−46.2	49.6	67.8	133	0.283	1.0	0.0	0.154	1.0	0.0	58.2	−53.3	41.1	67.4	142	0.283	1.0	0.0			
133	134	143	0.266	1.0	0.0	61.9	−46.5	49.3	67.8	133	0.26	1.0	0.0	61.5	−47.0	48.7	67.8	134	0.267	1.0	0.0	0.139	1.0	0.0	57.8	−54.1	40.0	67.4	143	0.267	1.0	0.0			
134	135	144	0.25	1.0	0.0	60.8	−47.8	47.8	67.6	134	0.249	1.0	0.0	60.9	−47.7	47.8	67.7	135	0.25	1.0	0.0	0.124	1.0	0.0	57.4	−54.9	38.9	67.4	144	0.25	1.0	0.0			
136	136	145	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136	0.237	1.0	0.0	60.5	−48.5	47.0	67.6	136	0.233	1.0	0.0	0.113	1.0	0.0	56.9	−56.2	38.1	68.0	145	0.233	1.0	0.0			
137	137	147	0.216	1.0	0.0	59.9	−49.8	45.6	67.5	137	0.224	1.0	0.0	60.1	−49.3	46.1	67.6	137	0.217	1.0	0.0	0.102	1.0	0.0	56.4	−57.5	37.3	68.6	147	0.217	1.0	0.0			
138	138	148	0.2	1.0	0.0	59.4	−50.8	44.4	67.5	138	0.211	1.0	0.0	59.8	−50.1	45.2	67.6	138	0.2	1.0	0.0	0.091	1.0	0.0	55.9	−58.8	36.4	69.2	148	0.2	1.0	0.0			
140	139	149	0.183	1.0	0.0	59.0	−51.8	43.2	67.4	140	0.198	1.0	0.0	59.4	−50.9	44.3	67.5	139	0.183	1.0	0.0	0.08	1.0	0.0	55.4	−60.0	35.6	69.9	149	0.183	1.0	0.0			
141	140	150	0.166	1.0	0.0	58.5	−52.7	42.0	67.4	141	0.185	1.0	0.0	59.1	−51.6	43.4	67.5	140	0.167	1.0	0.0	0.069	1.0	0.0	55.0	−61.3	34.6	70.5	150	0.167	1.0	0.0			
142	141	151	0.15	1.0	0.0	58.1	−53.6	40.8	67.4	142	0.172	1.0	0.0	58.7	−52.3	42.5	67.5	141	0.15	1.0	0.0	0.058	1.0	0.0	54.5	−62.5	33.7	71.1	151	0.15	1.0	0.0			
144	142	152	0.133	1.0	0.0	57.6	−54.5	39.5	67.3	144	0.159	1.0	0.0	58.4	−53.0	41.5	67.4	142	0.133	1.0	0.0	0.047	1.0	0.0	54.0	−63.8	32.7	71.7	152	0.133	1.0	0.0			
145	143	154	0.116	1.0	0.0	57.0	−55.9	38.3	67.8	145	0.147	1.0	0.0	58.0	−53.7	40.6	67.4	143	0.117	1.0	0.0	0.035	1.0	0.0	53.5	−65.0	31.7	72.4	154	0.117	1.0	0.0			
147	144	155	0.1	1.0	0.0	56.3	−57.8	37.1	68.7	147	0.134	1.0	0.0	57.7	−54.4	39.6	67.4	144	0.1	1.0	0.0	0.024	1.0	0.0	53.0	−66.2	30.6	73.0	155	0.1	1.0	0.0			
149	145	156	0.083	1.0	0.0	55.5	−59.7	35.8	69.6	149	0.122	1.0	0.0	57.3	−55.2	38.7	67.5	145	0.083	1.0	0.0	0.013	1.0	0.0	52.5	−67.4	29.5	73.6	156	0.083	1.0	0.0			
150	146	157	0.066	1.0	0.0	54.8	−61.6	34.4	70.6	150	0.112	1.0	0.0	56.9	−56.3	38.1	68.0	146	0.067	1.0	0.0	0.002	1.0	0.0	52.0	−68.5	28.3	74.2	157	0.067	1.0	0.0			
152	147	158	0.049	1.0	0.0	54.1	−63.4	32.9	71.5	152	0.103	1.0	0.0	56.4	−57.4	37.4	68.6	147	0.05	1.0	0.0	0.0	1.0	0.02	52.1	−68.4	26.7	73.6	158	0.05	1.0	0.0			
154	148	159	0.033	1.0	0.0	53.4	−65.3	31.4	72.4	154	0.093	1.0	0.0	56.0	−58.5	36.6	69.1	148	0.033	1.0	0.0	0.0	1.0	0.044	52.2	−68.0	24.9	72.5	159	0.033	1.0	0.0			
156	149	161	0.016	1.0	0.0	52.6	−67.1	29.8	73.4	156	0.084	1.0	0.0	55.6	−59.6	35.9	69.7	149	0.017	1.0	0.0	0.0	1.0	0.069	52.3	−67.6	23.2	71.5	161	0.017	1.0	0.0			
157	150	162	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157	G_d 0.074	1.0	0.0	55.2	−60.7	35.1	70.2	150	G_s 0.0	1.0	0.0	0.0	1.0	0.093	52.4	−67.0	21.5	70.5	162	G_e 0.0	1.0	0.0			
158	151	163	0.0	1.0	0.016	52.0	−68.5	26.9	73.6	158	0.065	1.0	0.0	54.8	−61.8	34.3	70.7	151	0.0	1.0	0.017	0.0	1.0	0.112	52.5	−66.6	20.2	69.7	163	0.0	1.0	0.017			
159	152	164	0.0	1.0	0.033	52.1	−68.3	25.7	72.9	159	0.055	1.0	0.0	54.4	−62.8	33.5	71.3	152	0.0	1.0	0.033	0.0	1.0	0.13	52.6	−66.2	18.9	68.9	164	0.0	1.0	0.033			
160	153	164	0.0	1.0	0.05	52.2	−68.0	24.5	72.2	160	0.046	1.0	0.0	53.9	−63.9	32.6	71.8	153	0.0	1.0	0.05	0.0	1.0	0.146	52.7	−65.7	17.7	68.1	164	0.0	1.0	0.05			
160	154	165	0.0	1.0	0.066	52.2	−67.6	23.3	71.6	160	0.036	1.0	0.0	53.5	−64.9	31.7	72.3	154	0.0	1.0	0.067	0.0	1.0	0.162	52.8	−65.2	16.4	67.3	165	0.0	1.0	0.067			
161	155	166	0.0	1.0	0.083	52.3	−67.3	22.1	70.9	161	0.027	1.0	0.0	53.1	−65.9	30.8	72.9	155	0.0	1.0	0.083	0.0	1.0	0.178	52.9	−64.6	15.2	66.5	166	0.0	1.0	0.083			
162	156	167	0.0	1.0	0.1	52.4	−66.9	21.0	70.2	162	0.017	1.0	0.0	52.7	−67.0	29.9	73.4	156	0.0	1.0	0.1	0.0	1.0	0.193	53.0	−64.1	14.0	65.7	167	0.0	1.0	0.1			
163	157	168	0.0	1.0	0.116	52.5	−66.6	19.9	69.5	163	0.008	1.0	0.0	52.3	−68.0	28.9	73.9	157	0.0	1.0	0.117	0.0	1.0	0.209	53.1	−63.5	12.8	64.9	168	0.0	1.0	0.117			
164	158	169	0.0	1.0	0.133	52.6	−66.1	18.6	68.7	164	0.0	1.0	0.004	52.0	−68.7	27.8	74.2	158	0.0	1.0	0.133	0.0	1.0	0.225	53.2	−62.9	11.6	64.1	169	0.0	1.0	0.133			
165	159	170	0.0	1.0	0.15	52.7	−65.6	17.3	67.9	165	0.0	1.0	0.025	52.1	−68.3	26.3	73.3	159	0.0	1.0	0.15	0.0	1.0	0.241	53.2	−62.3	10.5	63.3	170	0.0	1.0	0.15			
166	160	171	0.0	1.0	0.166	52.8	−65.0	16.0	67.0	166	0.0	1.0	0.046	52.2	−68.0	24.8	72.4	160	0.0	1.0	0.167	0.0	1.0	0.254	53.3	−61.7	9.4	62.6	171	0.0	1.0	0.167			
167	161	172	0.0	1.0	0.183	52.9	−64.5	14.7	66.1	167	0.0	1.0	0.067	52.3	−67.6	23.3	71.6	161	0.0	1.0	0.183	0.0	1.0	0.266	53.4	−61.4	8.4	62.0	172	0.0	1.0	0.183			
168	162	173	0.0	1.0	0.2	53.0	−63.9	13.4	65.3	168	0.0	1.0	0.088	52.4	−67.1	21.8	70.7	162	0.0	1.0	0.2	0.0	1.0	0.277	53.5	−61.0	7.3	61.5	173	0.0	1.0	0.2			
169	163	174	0.0	1.0	0.216	53.1	−63.3	12.2	64.4	169	0.0	1.0	0.109	52.5	−66.7	20.4	69.8	163	0.0	1.0	0.217	0.0	1.0	0.288	53.5	−60.6	6.3	61.0	174	0.0	1.0	0.217			
170	164	175	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170	0.0	1.0	0.129	52.6	−66.2	19.0	69.0	164	0.0	1.0	0.233	0.0	1.0	0.3	53.6	−60.1	5.3	60.5	175	0.0	1.0	0.233			
170	165	175	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170	0.0	1.0	0.147	52.7	−65.7	17.6	68.1	165	0.0	1.0	0.25	0.0	1.0	0.311	53.7	−59.7	4.3	59.9	175	0.0	1.0	0.25			

TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
48 step hue circles; *rgb−LabCh*tables

input: *rgb/cmyk −> rgb*$_d$
output: transfer to *cmyk*$_d$

QE04 00L

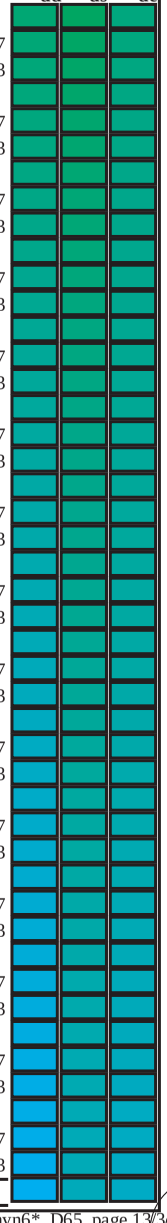
TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb** dd361M			*LAB** ddx361Mi (x=LabCh)				*rgb** ds361Mi			*LAB** dsx361Mi (x=LabCh)				*rgb** dd361Mi			*rgb** de361Mi			*LAB** dex361Mi (x=LabCh)				*rgb** dd361Mi			*rgb**$_{dd}$ *rgb**$_{ds}$ *rgb**$_{de}$
170	165	175	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170	0.0	1.0	0.147	52.7	−65.7	17.6	68.1	165	0.0	1.0	0.25	0.0	1.0	0.311	53.7	−59.7	4.3	59.9	175	0.0	1.0	0.25	
172	166	176	0.0	1.0	0.266	53.4	−61.4	8.2	61.9	172	0.0	1.0	0.164	52.8	−65.1	16.3	67.2	166	0.0	1.0	0.267	0.0	1.0	0.322	53.8	−59.2	3.3	59.4	176	0.0	1.0	0.267	
173	167	177	0.0	1.0	0.283	53.5	−60.8	6.7	61.2	173	0.0	1.0	0.181	52.9	−64.5	14.9	66.3	167	0.0	1.0	0.283	0.0	1.0	0.334	53.8	−58.7	2.3	58.9	177	0.0	1.0	0.283	
175	168	178	0.0	1.0	0.3	53.6	−60.2	5.2	60.4	175	0.0	1.0	0.198	53.0	−63.9	13.6	65.4	168	0.0	1.0	0.3	0.0	1.0	0.345	53.9	−58.3	1.4	58.4	178	0.0	1.0	0.3	
176	169	179	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176	0.0	1.0	0.216	53.1	−63.2	12.3	64.5	169	0.0	1.0	0.317	0.0	1.0	0.356	54.0	−57.7	0.4	57.8	179	0.0	1.0	0.317	
177	170	180	0.0	1.0	0.333	53.8	−58.8	2.3	58.9	177	0.0	1.0	0.233	53.2	−62.6	11.1	63.6	170	0.0	1.0	0.333	0.0	1.0	0.368	54.1	−57.2	−0.4	57.3	180	0.0	1.0	0.333	
179	171	181	0.0	1.0	0.35	53.9	−58.1	0.9	58.1	179	0.0	1.0	0.25	53.3	−61.9	9.8	62.8	171	0.0	1.0	0.35	0.0	1.0	0.378	54.1	−56.8	−1.3	56.9	181	0.0	1.0	0.35	
180	172	182	0.0	1.0	0.366	54.0	−57.3	−0.4	57.3	180	0.0	1.0	0.263	53.4	−61.5	8.7	62.2	172	0.0	1.0	0.367	0.0	1.0	0.387	54.2	−56.4	−2.2	56.5	182	0.0	1.0	0.367	
181	173	183	0.0	1.0	0.383	54.1	−56.6	−1.8	56.6	181	0.0	1.0	0.275	53.5	−61.1	7.5	61.6	173	0.0	1.0	0.383	0.0	1.0	0.396	54.2	−56.0	−3.1	56.2	183	0.0	1.0	0.383	
183	174	184	0.0	1.0	0.4	54.2	−55.9	−3.5	56.0	183	0.0	1.0	0.287	53.5	−60.6	6.4	61.0	174	0.0	1.0	0.4	0.0	1.0	0.405	54.3	−55.7	−3.9	55.9	184	0.0	1.0	0.4	
185	175	185	0.0	1.0	0.416	54.3	−55.2	−5.0	55.5	185	0.0	1.0	0.3	53.6	−60.1	5.3	60.5	175	0.0	1.0	0.417	0.0	1.0	0.415	54.3	−55.3	−4.8	55.6	185	0.0	1.0	0.417	
186	176	185	0.0	1.0	0.433	54.4	−54.5	−6.6	54.9	186	0.0	1.0	0.312	53.7	−59.6	4.2	59.9	176	0.0	1.0	0.433	0.0	1.0	0.424	54.4	−54.9	−5.6	55.3	185	0.0	1.0	0.433	
188	177	186	0.0	1.0	0.45	54.5	−53.7	−8.0	54.3	188	0.0	1.0	0.324	53.8	−59.1	3.1	59.3	177	0.0	1.0	0.45	0.0	1.0	0.433	54.4	−54.4	−6.5	54.9	186	0.0	1.0	0.45	
190	178	187	0.0	1.0	0.466	54.6	−52.8	−9.5	53.7	190	0.0	1.0	0.337	53.9	−58.6	2.1	58.7	178	0.0	1.0	0.467	0.0	1.0	0.442	54.5	−54.0	−7.3	54.6	187	0.0	1.0	0.467	
191	179	188	0.0	1.0	0.483	54.7	−52.0	−10.9	53.1	191	0.0	1.0	0.349	53.9	−58.1	1.0	58.2	179	0.0	1.0	0.483	0.0	1.0	0.451	54.6	−53.6	−8.1	54.3	188	0.0	1.0	0.483	
193	180	189	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193	0.0	1.0	0.362	54.0	−57.5	0.0	57.6	180	0.0	1.0	0.5	0.0	1.0	0.46	54.6	−53.1	−8.9	54.0	189	0.0	1.0	0.5	
195	181	190	0.0	1.0	0.516	54.9	−50.4	−13.7	52.2	195	0.0	1.0	0.374	54.1	−56.9	−0.9	57.0	181	0.0	1.0	0.517	0.0	1.0	0.469	54.7	−52.6	−9.7	53.6	190	0.0	1.0	0.517	
196	182	191	0.0	1.0	0.533	55.1	−49.6	−15.0	51.9	196	0.0	1.0	0.384	54.2	−56.5	−1.9	56.7	182	0.0	1.0	0.533	0.0	1.0	0.479	54.7	−52.2	−10.5	53.3	191	0.0	1.0	0.533	
198	183	192	0.0	1.0	0.55	55.2	−48.9	−16.3	51.6	198	0.0	1.0	0.394	54.2	−56.1	−2.8	56.3	183	0.0	1.0	0.55	0.0	1.0	0.488	54.8	−51.7	−11.2	53.0	192	0.0	1.0	0.55	
200	184	193	0.0	1.0	0.566	55.3	−48.1	−17.6	51.2	200	0.0	1.0	0.404	54.3	−55.7	−3.8	55.9	184	0.0	1.0	0.567	0.0	1.0	0.497	54.8	−51.2	−12.0	52.7	193	0.0	1.0	0.567	
201	185	194	0.0	1.0	0.583	55.5	−47.3	−18.9	50.9	201	0.0	1.0	0.414	54.3	−55.3	−4.7	55.6	185	0.0	1.0	0.583	0.0	1.0	0.506	54.9	−50.8	−12.7	52.5	194	0.0	1.0	0.583	
203	186	195	0.0	1.0	0.6	55.6	−46.4	−20.1	50.6	203	0.0	1.0	0.424	54.4	−54.8	−5.7	55.2	186	0.0	1.0	0.6	0.0	1.0	0.515	55.0	−50.4	−13.5	52.3	195	0.0	1.0	0.6	
205	187	195	0.0	1.0	0.616	55.7	−45.5	−21.3	50.3	205	0.0	1.0	0.434	54.5	−54.4	−6.6	54.9	187	0.0	1.0	0.617	0.0	1.0	0.524	55.0	−50.0	−14.3	52.1	195	0.0	1.0	0.617	
206	188	196	0.0	1.0	0.633	55.8	−44.7	−22.5	50.1	206	0.0	1.0	0.444	54.5	−53.9	−7.5	54.5	188	0.0	1.0	0.633	0.0	1.0	0.534	55.1	−49.6	−15.0	51.9	196	0.0	1.0	0.633	
208	189	197	0.0	1.0	0.65	56.0	−44.0	−23.8	50.1	208	0.0	1.0	0.454	54.6	−53.4	−8.4	54.2	189	0.0	1.0	0.65	0.0	1.0	0.543	55.2	−49.2	−15.7	51.7	197	0.0	1.0	0.65	
210	190	198	0.0	1.0	0.666	56.1	−43.2	−25.0	50.0	210	0.0	1.0	0.464	54.6	−52.9	−9.2	53.8	190	0.0	1.0	0.667	0.0	1.0	0.552	55.3	−48.7	−16.5	51.6	198	0.0	1.0	0.667	
211	191	199	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211	0.0	1.0	0.474	54.7	−52.4	−10.1	53.5	191	0.0	1.0	0.683	0.0	1.0	0.561	55.3	−48.3	−17.2	51.4	199	0.0	1.0	0.683	
213	192	200	0.0	1.0	0.7	56.3	−41.6	−27.5	49.9	213	0.0	1.0	0.484	54.8	−51.9	−10.9	53.1	192	0.0	1.0	0.7	0.0	1.0	0.571	55.4	−47.9	−17.9	51.2	200	0.0	1.0	0.7	
215	193	201	0.0	1.0	0.716	56.5	−40.8	−28.6	49.8	215	0.0	1.0	0.494	54.8	−51.3	−11.8	52.8	193	0.0	1.0	0.717	0.0	1.0	0.58	55.5	−47.4	−18.6	51.0	201	0.0	1.0	0.717	
216	194	202	0.0	1.0	0.733	56.6	−39.9	−29.8	49.8	216	0.0	1.0	0.504	54.9	−50.8	−12.6	52.5	194	0.0	1.0	0.733	0.0	1.0	0.589	55.6	−46.9	−19.3	50.9	202	0.0	1.0	0.733	
218	195	203	0.0	1.0	0.75	56.7	−38.9	−30.9	49.7	218	0.0	1.0	0.514	55.0	−50.4	−13.4	52.3	195	0.0	1.0	0.75	0.0	1.0	0.598	55.6	−46.5	−19.9	50.7	203	0.0	1.0	0.75	
219	196	204	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219	0.0	1.0	0.525	55.0	−50.0	−14.3	52.1	196	0.0	1.0	0.767	0.0	1.0	0.607	55.7	−46.0	−20.6	50.5	204	0.0	1.0	0.767	
220	197	205	0.0	1.0	0.783	56.9	−37.8	−32.6	49.9	220	0.0	1.0	0.535	55.1	−49.5	−15.1	51.9	197	0.0	1.0	0.783	0.0	1.0	0.617	55.8	−45.5	−21.3	50.3	205	0.0	1.0	0.783	
221	198	206	0.0	1.0	0.8	57.0	−37.2	−33.5	50.1	221	0.0	1.0	0.545	55.2	−49.1	−15.9	51.7	198	0.0	1.0	0.8	0.0	1.0	0.626	55.8	−45.0	−21.9	50.2	206	0.0	1.0	0.8	
223	199	206	0.0	1.0	0.816	57.1	−36.6	−34.3	50.2	223	0.0	1.0	0.555	55.3	−48.6	−16.7	51.5	199	0.0	1.0	0.817	0.0	1.0	0.635	55.9	−44.6	−22.6	50.2	206	0.0	1.0	0.817	
224	200	207	0.0	1.0	0.833	57.3	−36.0	−35.2	50.3	224	0.0	1.0	0.565	55.4	−48.1	−17.5	51.3	200	0.0	1.0	0.833	0.0	1.0	0.644	56.0	−44.2	−23.3	50.1	207	0.0	1.0	0.833	
225	201	208	0.0	1.0	0.85	57.4	−35.3	−36.0	50.4	225	0.0	1.0	0.575	55.4	−47.6	−18.2	51.1	201	0.0	1.0	0.85	0.0	1.0	0.653	56.0	−43.8	−24.0	50.1	208	0.0	1.0	0.85	
226	202	209	0.0	1.0	0.866	57.5	−34.6	−36.8	50.6	226	0.0	1.0	0.585	55.5	−47.1	−19.0	50.9	202	0.0	1.0	0.867	0.0	1.0	0.662	56.1	−43.4	−24.7	50.1	209	0.0	1.0	0.867	
227	203	210	0.0	1.0	0.883	57.6	−34.0	−37.7	50.8	227	0.0	1.0	0.595	55.6	−46.6	−19.7	50.8	203	0.0	1.0	0.883	0.0	1.0	0.672	56.2	−43.0	−25.4	50.0	210	0.0	1.0	0.883	
229	204	211	0.0	1.0	0.9	57.7	−33.4	−38.6	51.0	229	0.0	1.0	0.605	55.7	−46.1	−20.5	50.6	204	0.0	1.0	0.9	0.0	1.0	0.681	56.3	−42.5	−26.0	50.0	211	0.0	1.0	0.9	
230	205	212	0.0	1.0	0.916	57.8	−32.8	−39.4	51.3	230	0.0	1.0	0.615	55.8	−45.6	−21.2	50.4	205	0.0	1.0	0.917	0.0	1.0	0.69	56.3	−42.1	−26.7	50.0	212	0.0	1.0	0.917	
231	206	213	0.0	1.0	0.933	57.9	−32.1	−40.3	51.6	231	0.0	1.0	0.626	55.8	−45.0	−21.9	50.2	206	0.0	1.0	0.933	0.0	1.0	0.699	56.4	−41.6	−27.3	49.9	213	0.0	1.0	0.933	
232	207	214	0.0	1.0	0.95	58.0	−31.4	−41.2	51.8	232	0.0	1.0	0.636	55.9	−44.6	−22.7	50.2	207	0.0	1.0	0.95	0.0	1.0	0.708	56.5	−41.1	−28.0	49.9	214	0.0	1.0	0.95	
233	208	215	0.0	1.0	0.966	58.1	−30.7	−42.0	52.1	233	0.0	1.0	0.646	56.0	−44.2	−23.4	50.1	208	0.0	1.0	0.967	0.0	1.0	0.717	56.5	−40.7	−28.6	49.9	215	0.0	1.0	0.967	
235	209	216	0.0	1.0	0.983	58.2	−30.0	−42.9	52.3	235	0.0	1.0	0.656	56.1	−43.7	−24.2	50.1	209	0.0	1.0	0.983	0.0	1.0	0.726	56.6	−40.2	−29.2	49.8	216	0.0	1.0	0.983	
236	210	216	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236	C_d	0.0	1.0	0.666	56.1	−43.2	−24.9	50.0	210	C_s	0.0	1.0	1.0	0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	216	C_e	0.0	1.0	1.0	



TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
48 step hue circles; *rgb−LabCh*tables

input: *rgb/cmyk −> rgb*$_d$
output: transfer to *cmyk*$_d$

QE04 00L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**dd361M			*LAB**ddx361Mi (x=LabCh)					C_d	*rgb**ds361Mi			*LAB**dsx361Mi (x=LabCh)					C_s	*rgb**dd361Mi			*rgb**de361Mi			*LAB**dex361Mi (x=LabCh)					C_e	*rgb**dd361Mi		
236	210	216	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236		0.0	1.0	0.666	56.1	−43.2	−24.9	50.0	210		0.0	1.0	1.0	0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	216		0.0	1.0	1.0
236	211	217	0.0	0.983	1.0	57.9	−28.7	−43.7	52.3	236		0.0	1.0	0.676	56.2	−42.8	−25.7	50.0	211		0.0	0.983	1.0	0.0	1.0	0.745	56.7	−39.2	−30.5	49.8	217		0.0	0.983	1.0
237	212	218	0.0	0.966	1.0	57.5	−28.1	−43.8	52.0	237		0.0	1.0	0.686	56.3	−42.3	−26.4	50.0	212		0.0	0.967	1.0	0.0	1.0	0.755	56.8	−38.7	−31.1	49.8	218		0.0	0.967	1.0
237	213	219	0.0	0.95	1.0	57.1	−27.5	−43.8	51.8	237		0.0	1.0	0.696	56.4	−41.8	−27.1	49.9	213		0.0	0.95	1.0	0.0	1.0	0.768	56.9	−38.3	−31.8	49.9	219		0.0	0.95	1.0
238	214	220	0.0	0.933	1.0	56.7	−26.9	−43.9	51.5	238		0.0	1.0	0.706	56.4	−41.3	−27.8	49.9	214		0.0	0.933	1.0	0.0	1.0	0.781	57.0	−37.8	−32.4	50.0	220		0.0	0.933	1.0
238	215	221	0.0	0.916	1.0	56.2	−26.4	−43.9	51.2	238		0.0	1.0	0.716	56.5	−40.8	−28.5	49.9	215		0.0	0.917	1.0	0.0	1.0	0.794	57.0	−37.4	−33.1	50.1	221		0.0	0.917	1.0
239	216	222	0.0	0.9	1.0	55.8	−25.8	−43.9	50.9	239		0.0	1.0	0.726	56.6	−40.2	−29.2	49.8	216		0.0	0.9	1.0	0.0	1.0	0.807	57.1	−36.9	−33.8	50.2	222		0.0	0.9	1.0
240	217	223	0.0	0.883	1.0	55.4	−25.2	−43.9	50.7	240		0.0	1.0	0.736	56.7	−39.7	−29.9	49.8	217		0.0	0.883	1.0	0.0	1.0	0.819	57.2	−36.4	−34.4	50.3	223		0.0	0.883	1.0
240	218	224	0.0	0.866	1.0	55.0	−24.6	−43.9	50.4	240		0.0	1.0	0.746	56.7	−39.1	−30.5	49.8	218		0.0	0.867	1.0	0.0	1.0	0.832	57.3	−36.0	−35.1	50.4	224		0.0	0.867	1.0
241	219	225	0.0	0.85	1.0	54.5	−23.9	−44.0	50.1	241		0.0	1.0	0.758	56.8	−38.6	−31.2	49.8	219		0.0	0.85	1.0	0.0	1.0	0.845	57.4	−35.5	−35.7	50.5	225		0.0	0.85	1.0
242	220	226	0.0	0.833	1.0	54.1	−23.2	−44.0	49.8	242		0.0	1.0	0.772	56.9	−38.1	−32.0	49.9	220		0.0	0.833	1.0	0.0	1.0	0.858	57.5	−35.0	−36.3	50.6	226		0.0	0.833	1.0
242	221	227	0.0	0.816	1.0	53.6	−22.5	−44.1	49.5	242		0.0	1.0	0.786	57.0	−37.7	−32.7	50.0	221		0.0	0.817	1.0	0.0	1.0	0.871	57.5	−34.4	−37.0	50.7	227		0.0	0.817	1.0
243	222	227	0.0	0.8	1.0	53.1	−21.8	−44.1	49.2	243		0.0	1.0	0.8	57.1	−37.2	−33.4	50.1	222		0.0	0.8	1.0	0.0	1.0	0.884	57.6	−33.9	−37.6	50.8	227		0.0	0.8	1.0
244	223	228	0.0	0.783	1.0	52.7	−21.1	−44.1	48.9	244		0.0	1.0	0.814	57.2	−36.6	−34.2	50.2	223		0.0	0.783	1.0	0.0	1.0	0.896	57.7	−33.5	−38.3	51.0	228		0.0	0.783	1.0
245	224	229	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245		0.0	1.0	0.828	57.3	−36.1	−34.9	50.3	224		0.0	0.767	1.0	0.0	1.0	0.909	57.8	−33.0	−39.0	51.2	229		0.0	0.767	1.0
245	225	230	0.0	0.75	1.0	51.7	−19.7	−44.1	48.3	245		0.0	1.0	0.842	57.4	−35.6	−35.6	50.4	225		0.0	0.75	1.0	0.0	1.0	0.922	57.9	−32.5	−39.7	51.4	230		0.0	0.75	1.0
246	226	231	0.0	0.733	1.0	51.2	−18.9	−44.2	48.1	246		0.0	1.0	0.856	57.5	−35.0	−36.3	50.5	226		0.0	0.733	1.0	0.0	1.0	0.935	57.9	−32.0	−40.4	51.6	231		0.0	0.733	1.0
247	227	232	0.0	0.716	1.0	50.7	−18.1	−44.3	47.8	247		0.0	1.0	0.87	57.5	−34.4	−36.9	50.7	227		0.0	0.717	1.0	0.0	1.0	0.948	58.0	−31.5	−41.0	51.8	232		0.0	0.717	1.0
248	228	233	0.0	0.7	1.0	50.1	−17.4	−44.3	47.6	248		0.0	1.0	0.884	57.6	−33.9	−37.7	50.8	228		0.0	0.7	1.0	0.0	1.0	0.961	58.1	−30.9	−41.7	52.0	233		0.0	0.7	1.0
249	229	234	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249		0.0	1.0	0.899	57.7	−33.4	−38.4	51.1	229		0.0	0.683	1.0	0.0	1.0	0.974	58.2	−30.4	−42.3	52.2	234		0.0	0.683	1.0
250	230	235	0.0	0.666	1.0	49.1	−15.8	−44.4	47.1	250		0.0	1.0	0.913	57.8	−32.9	−39.2	51.3	230		0.0	0.667	1.0	0.0	1.0	0.987	58.3	−29.8	−43.0	52.4	235		0.0	0.667	1.0
251	231	236	0.0	0.65	1.0	48.5	−15.0	−44.4	46.9	251		0.0	1.0	0.927	57.9	−32.3	−39.9	51.5	231		0.0	0.65	1.0	0.0	1.0	0.999	58.3	−29.2	−43.6	52.6	236		0.0	0.65	1.0
252	232	237	0.0	0.633	1.0	48.0	−14.3	−44.4	46.6	252		0.0	1.0	0.941	58.0	−31.7	−40.7	51.7	232		0.0	0.633	1.0	0.0	0.974	1.0	57.7	−28.3	−43.7	52.2	237		0.0	0.633	1.0
253	233	237	0.0	0.616	1.0	47.4	−13.4	−44.5	46.4	253		0.0	1.0	0.955	58.1	−31.2	−41.4	51.9	233		0.0	0.617	1.0	0.0	0.947	1.0	57.0	−27.4	−43.8	51.8	237		0.0	0.617	1.0
254	234	238	0.0	0.6	1.0	46.7	−12.3	−44.6	46.3	254		0.0	1.0	0.969	58.2	−30.6	−42.1	52.2	234		0.0	0.6	1.0	0.0	0.919	1.0	56.4	−26.4	−43.8	51.3	238		0.0	0.6	1.0
255	235	239	0.0	0.583	1.0	46.1	−11.3	−44.7	46.1	255		0.0	1.0	0.983	58.2	−29.9	−42.8	52.4	235		0.0	0.583	1.0	0.0	0.892	1.0	55.7	−25.5	−43.8	50.8	239		0.0	0.583	1.0
257	236	240	0.0	0.566	1.0	45.4	−10.2	−44.8	46.0	257		0.0	1.0	0.997	58.3	−29.3	−43.5	52.6	236		0.0	0.567	1.0	0.0	0.867	1.0	55.0	−24.6	−43.9	50.4	240		0.0	0.567	1.0
258	237	241	0.0	0.55	1.0	44.7	−9.1	−44.9	45.8	258		0.0	0.976	1.0	57.7	−28.4	−43.7	52.2	237		0.0	0.55	1.0	0.0	0.847	1.0	54.5	−23.7	−44.0	50.1	241		0.0	0.55	1.0
259	238	242	0.0	0.533	1.0	44.1	−8.1	−45.0	45.7	259		0.0	0.946	1.0	57.0	−27.3	−43.8	51.7	238		0.0	0.533	1.0	0.0	0.826	1.0	53.9	−22.8	−44.0	49.7	242		0.0	0.533	1.0
261	239	243	0.0	0.516	1.0	43.4	−7.0	−45.0	45.5	261		0.0	0.916	1.0	56.3	−26.3	−43.8	51.2	239		0.0	0.517	1.0	0.0	0.805	1.0	53.3	−22.0	−44.0	49.3	243		0.0	0.517	1.0
262	240	244	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262		0.0	0.886	1.0	55.5	−25.3	−43.8	50.7	240		0.0	0.5	1.0	0.0	0.785	1.0	52.7	−21.1	−44.1	49.0	244		0.0	0.5	1.0
263	241	245	0.0	0.483	1.0	42.1	−5.0	−45.1	45.4	263		0.0	0.861	1.0	54.9	−24.3	−43.9	50.3	241		0.0	0.483	1.0	0.0	0.764	1.0	52.2	−20.2	−44.1	48.6	245		0.0	0.483	1.0
264	242	246	0.0	0.466	1.0	41.4	−4.0	−45.2	45.4	264		0.0	0.838	1.0	54.2	−23.3	−44.0	49.9	242		0.0	0.467	1.0	0.0	0.745	1.0	51.6	−19.4	−44.1	48.3	246		0.0	0.467	1.0
266	243	247	0.0	0.45	1.0	40.8	−3.0	−45.3	45.4	266		0.0	0.815	1.0	53.6	−22.4	−44.0	49.5	243		0.0	0.45	1.0	0.0	0.727	1.0	51.1	−18.6	−44.2	48.1	247		0.0	0.45	1.0
267	244	248	0.0	0.433	1.0	40.2	−2.1	−45.3	45.4	267		0.0	0.793	1.0	53.0	−21.4	−44.1	49.1	244		0.0	0.433	1.0	0.0	0.71	1.0	50.5	−17.8	−44.2	47.8	248		0.0	0.433	1.0
268	245	248	0.0	0.416	1.0	39.5	−1.1	−45.4	45.4	268		0.0	0.77	1.0	52.3	−20.5	−44.1	48.7	245		0.0	0.417	1.0	0.0	0.693	1.0	50.0	−17.0	−44.3	47.6	248		0.0	0.417	1.0
269	246	249	0.0	0.4	1.0	38.9	−0.1	−45.4	45.4	269		0.0	0.748	1.0	51.7	−19.6	−44.1	48.4	246		0.0	0.4	1.0	0.0	0.676	1.0	49.4	−16.2	−44.3	47.3	249		0.0	0.4	1.0
271	247	250	0.0	0.383	1.0	38.2	0.8	−45.4	45.4	271		0.0	0.729	1.0	51.1	−18.7	−44.2	48.1	247		0.0	0.383	1.0	0.0	0.659	1.0	48.9	−15.4	−44.3	47.1	250		0.0	0.383	1.0
272	248	251	0.0	0.366	1.0	37.6	1.8	−45.5	45.5	272		0.0	0.711	1.0	50.5	−17.8	−44.2	47.8	248		0.0	0.367	1.0	0.0	0.642	1.0	48.3	−14.6	−44.3	46.8	251		0.0	0.367	1.0
273	249	252	0.0	0.35	1.0	37.0	2.9	−45.6	45.7	273		0.0	0.692	1.0	49.9	−16.9	−44.3	47.5	249		0.0	0.35	1.0	0.0	0.625	1.0	47.8	−13.8	−44.3	46.6	252		0.0	0.35	1.0
275	250	253	0.0	0.333	1.0	36.4	4.0	−45.7	45.9	275		0.0	0.673	1.0	49.3	−16.1	−44.3	47.3	250		0.0	0.333	1.0	0.0	0.613	1.0	47.3	−13.1	−44.4	46.5	253		0.0	0.333	1.0
276	251	254	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276		0.0	0.654	1.0	48.7	−15.2	−44.3	47.0	251		0.0	0.317	1.0	0.0	0.602	1.0	46.8	−12.4	−44.6	46.4	254		0.0	0.317	1.0
277	252	255	0.0	0.3	1.0	35.1	6.1	−45.9	46.3	277		0.0	0.636	1.0	48.1	−14.3	−44.3	46.7	252		0.0	0.3	1.0	0.0	0.59	1.0	46.4	−11.6	−44.6	46.3	255		0.0	0.3	1.0
279	253	256	0.0	0.283	1.0	34.5	7.2	−46.0	46.5	279		0.0	0.62	1.0	47.6	−13.5	−44.4	46.5	253		0.0	0.283	1.0	0.0	0.578	1.0	45.9	−10.9	−44.7	46.1	256		0.0	0.283	1.0
280	254	257	0.0	0.266	1.0	33.9	8.3	−46.0	46.7	280		0.0	0.607	1.0	47.1	−12.7	−44.5	46.4	254		0.0	0.267	1.0	0.0	0.567	1.0	45.5	−10.2	−44.8	46.0	257		0.0	0.267	1.0
281	255	258	0.0	0.25	1.0	33.3	9.4	−46.0	47.0	281		0.0	0.594	1.0	46.5	−11.9	−44.6	46.3	255		0.0	0.25	1.0	0.0	0.555	1.0	45.0	−9.4	−44.8	45.9	258		0.0	0.25	1.0

*rgb**dd *rgb**ds *rgb**de

1−0031330−L0 QE040−70 LAB*la0, YN=0%, XYZnw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*nw=17.7, 0.0, 0.0, 95.5, 0.0, 0.0 Output: Offset standard print; separation cmyn6*, D65, page 14/33

QE04 00L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;
Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**dd361M	*LAB**ddx361Mi (x=LabCh)	*rgb**ds361Mi	*LAB**dsx361Mi (x=LabCh)	*rgb**dd361Mi	*rgb**de361Mi	*LAB**dex361Mi (x=LabCh)	*rgb**dd361Mi
281	255	258	0.0 0.25 1.0	33.3 9.4 −46.0 47.0 281	0.0 0.594 1.0	46.5 −11.9 −44.6 46.3 255	0.0 0.25 1.0	0.0 0.555 1.0	45.0 −9.4 −44.8 45.9 258	0.0 0.25 1.0
282	256	258	0.0 0.233 1.0	32.7 10.5 −46.2 47.4 282	0.0 0.581 1.0	46.0 −11.1 −44.7 46.2 256	0.0 0.233 1.0	0.0 0.543 1.0	44.5 −8.7 −44.9 45.8 258	0.0 0.233 1.0
283	257	259	0.0 0.216 1.0	32.0 11.5 −46.4 47.8 283	0.0 0.568 1.0	45.5 −10.3 −44.8 46.1 257	0.0 0.217 1.0	0.0 0.532 1.0	44.1 −7.9 −44.9 45.7 259	0.0 0.217 1.0
285	258	260	0.0 0.2 1.0	31.4 12.5 −46.5 48.2 285	0.0 0.556 1.0	45.0 −9.5 −44.8 45.9 258	0.0 0.2 1.0	0.0 0.52 1.0	43.6 −7.2 −44.9 45.6 260	0.0 0.2 1.0
286	259	261	0.0 0.183 1.0	30.8 13.6 −46.7 48.6 286	0.0 0.543 1.0	44.5 −8.6 −44.9 45.8 259	0.0 0.183 1.0	0.0 0.508 1.0	43.1 −6.5 −44.9 45.5 261	0.0 0.183 1.0
287	260	262	0.0 0.166 1.0	30.1 14.7 −46.8 49.0 287	0.0 0.53 1.0	44.0 −7.8 −44.9 45.7 260	0.0 0.167 1.0	0.0 0.497 1.0	42.7 −5.7 −45.0 45.4 262	0.0 0.167 1.0
288	261	263	0.0 0.15 1.0	29.5 15.8 −46.9 49.4 288	0.0 0.517 1.0	43.5 −7.0 −44.9 45.6 261	0.0 0.15 1.0	0.0 0.484 1.0	42.2 −5.0 −45.0 45.4 263	0.0 0.15 1.0
289	262	264	0.0 0.133 1.0	28.9 16.8 −46.9 49.9 289	0.0 0.505 1.0	43.0 −6.2 −44.9 45.5 262	0.0 0.133 1.0	0.0 0.472 1.0	41.7 −4.3 −45.1 45.4 264	0.0 0.133 1.0
290	263	265	0.0 0.116 1.0	28.3 17.8 −47.0 50.3 290	0.0 0.491 1.0	42.5 −5.4 −45.0 45.4 263	0.0 0.117 1.0	0.0 0.46 1.0	41.2 −3.6 −45.2 45.4 265	0.0 0.117 1.0
291	264	266	0.0 0.1 1.0	27.9 18.6 −47.1 50.6 291	0.0 0.478 1.0	41.9 −4.6 −45.1 45.4 264	0.0 0.1 1.0	0.0 0.448 1.0	40.8 −2.9 −45.2 45.4 266	0.0 0.1 1.0
292	265	267	0.0 0.083 1.0	27.5 19.4 −47.1 51.0 292	0.0 0.465 1.0	41.4 −3.9 −45.2 45.4 265	0.0 0.083 1.0	0.0 0.436 1.0	40.3 −2.1 −45.3 45.4 267	0.0 0.083 1.0
293	266	268	0.0 0.066 1.0	27.0 20.2 −47.2 51.4 293	0.0 0.451 1.0	40.9 −3.1 −45.2 45.4 266	0.0 0.067 1.0	0.0 0.423 1.0	39.8 −1.4 −45.3 45.4 268	0.0 0.067 1.0
293	267	269	0.0 0.049 1.0	26.6 21.0 −47.3 51.7 293	0.0 0.438 1.0	40.4 −2.3 −45.3 45.4 267	0.0 0.05 1.0	0.0 0.411 1.0	39.4 −0.7 −45.3 45.4 269	0.0 0.05 1.0
294	268	269	0.0 0.033 1.0	26.2 21.8 −47.3 52.1 294	0.0 0.425 1.0	39.9 −1.5 −45.3 45.4 268	0.0 0.033 1.0	0.0 0.399 1.0	38.9 0.0 −45.3 45.4 269	0.0 0.033 1.0
295	269	270	0.0 0.016 1.0	25.7 22.6 −47.3 52.5 295	0.0 0.411 1.0	39.4 −0.7 −45.3 45.4 269	0.0 0.017 1.0	0.0 0.387 1.0	38.4 0.7 −45.3 45.4 270	0.0 0.017 1.0
296	270	271	0.0 0.0 1.0	25.3 23.5 −47.3 52.8 296 B_d	0.0 0.398 1.0	38.8 0.0 −45.3 45.4 270 B_s	0.0 0.0 1.0	0.0 0.375 1.0	37.9 1.4 −45.3 45.5 271 B_e	0.0 0.0 1.0
297	271	272	0.016 0.0 1.0	25.8 24.6 −46.8 52.9 297	0.0 0.385 1.0	38.3 0.8 −45.3 45.4 271	0.017 0.0 1.0	0.0 0.363 1.0	37.5 2.1 −45.5 45.6 272	0.017 0.0 1.0
299	272	273	0.033 0.0 1.0	26.3 25.8 −46.2 52.9 299	0.0 0.371 1.0	37.8 1.6 −45.4 45.5 272	0.033 0.0 1.0	0.0 0.351 1.0	37.1 2.9 −45.6 45.8 273	0.033 0.0 1.0
300	273	274	0.05 0.0 1.0	26.9 26.9 −45.6 52.9 300	0.0 0.359 1.0	37.3 2.4 −45.5 45.7 273	0.05 0.0 1.0	0.0 0.339 1.0	36.6 3.7 −45.7 45.9 274	0.05 0.0 1.0
301	274	275	0.066 0.0 1.0	27.4 28.0 −45.0 53.0 301	0.0 0.346 1.0	36.9 3.2 −45.6 45.8 274	0.067 0.0 1.0	0.0 0.327 1.0	36.2 4.4 −45.7 46.0 275	0.067 0.0 1.0
303	275	276	0.083 0.0 1.0	27.9 29.1 −44.3 53.0 303	0.0 0.334 1.0	36.4 4.0 −45.7 46.0 275	0.083 0.0 1.0	0.0 0.315 1.0	35.7 5.2 −45.8 46.2 276	0.083 0.0 1.0
304	276	277	0.1 0.0 1.0	28.5 30.2 −43.6 53.1 304	0.0 0.321 1.0	36.0 4.8 −45.8 46.1 276	0.1 0.0 1.0	0.0 0.303 1.0	35.3 6.0 −45.9 46.3 277	0.1 0.0 1.0
306	277	278	0.116 0.0 1.0	29.0 31.2 −42.9 53.1 306	0.0 0.309 1.0	35.5 5.6 −45.8 46.3 277	0.117 0.0 1.0	0.0 0.291 1.0	34.9 6.8 −45.9 46.5 278	0.117 0.0 1.0
307	278	279	0.133 0.0 1.0	29.4 32.1 −42.3 53.1 307	0.0 0.296 1.0	35.0 6.5 −45.9 46.4 278	0.133 0.0 1.0	0.0 0.279 1.0	34.4 7.6 −45.9 46.6 279	0.133 0.0 1.0
307	279	280	0.15 0.0 1.0	29.7 32.7 −41.9 53.2 307	0.0 0.283 1.0	34.6 7.3 −45.9 46.6 279	0.15 0.0 1.0	0.0 0.267 1.0	34.0 8.3 −45.9 46.8 280	0.15 0.0 1.0
308	280	281	0.166 0.0 1.0	30.0 33.3 −41.5 53.2 308	0.0 0.271 1.0	34.1 8.1 −45.9 46.7 280	0.167 0.0 1.0	0.0 0.256 1.0	33.5 9.1 −45.9 46.9 281	0.167 0.0 1.0
309	281	282	0.183 0.0 1.0	30.3 33.9 −41.0 53.2 309	0.0 0.258 1.0	33.6 8.9 −45.9 46.9 281	0.183 0.0 1.0	0.0 0.243 1.0	33.1 9.9 −46.0 47.2 282	0.183 0.0 1.0
310	282	283	0.2 0.0 1.0	30.6 34.5 −40.6 53.3 310	0.0 0.245 1.0	33.1 9.8 −46.0 47.1 282	0.2 0.0 1.0	0.0 0.229 1.0	32.5 10.8 −46.2 47.5 283	0.2 0.0 1.0
311	283	284	0.216 0.0 1.0	30.9 35.0 −40.1 53.3 311	0.0 0.231 1.0	32.6 10.7 −46.2 47.5 283	0.217 0.0 1.0	0.0 0.215 1.0	32.0 11.6 −46.3 47.9 284	0.217 0.0 1.0
311	284	285	0.233 0.0 1.0	31.2 35.6 −39.6 53.3 311	0.0 0.216 1.0	32.1 11.6 −46.3 47.8 284	0.233 0.0 1.0	0.0 0.202 1.0	31.5 12.5 −46.5 48.2 285	0.233 0.0 1.0
312	285	285	0.25 0.0 1.0	31.5 36.2 −39.2 53.4 312	0.0 0.202 1.0	31.5 12.5 −46.5 48.2 285	0.25 0.0 1.0	0.0 0.188 1.0	31.0 13.3 −46.6 48.5 285	0.25 0.0 1.0
314	286	286	0.266 0.0 1.0	31.8 37.8 −38.3 53.8 314	0.0 0.188 1.0	31.0 13.4 −46.6 48.6 286	0.267 0.0 1.0	0.0 0.175 1.0	30.5 14.2 −46.7 48.9 286	0.267 0.0 1.0
316	287	287	0.283 0.0 1.0	32.1 39.4 −37.4 54.3 316	0.0 0.173 1.0	30.4 14.3 −46.7 48.9 287	0.283 0.0 1.0	0.0 0.161 1.0	30.0 15.1 −46.8 49.2 287	0.283 0.0 1.0
318	288	288	0.3 0.0 1.0	32.4 40.9 −36.4 54.8 318	0.0 0.159 1.0	29.9 15.2 −46.8 49.3 288	0.3 0.0 1.0	0.0 0.147 1.0	29.5 16.0 −46.8 49.6 288	0.3 0.0 1.0
320	289	289	0.316 0.0 1.0	32.7 42.4 −35.3 55.3 320	0.0 0.145 1.0	29.4 16.2 −46.8 49.6 289	0.317 0.0 1.0	0.0 0.134 1.0	28.9 16.9 −46.9 49.9 289	0.317 0.0 1.0
322	290	290	0.333 0.0 1.0	33.0 43.9 −34.2 55.7 322	0.0 0.13 1.0	28.8 17.1 −46.9 50.0 290	0.333 0.0 1.0	0.0 0.118 1.0	28.4 17.8 −46.9 50.3 290	0.333 0.0 1.0
323	291	291	0.35 0.0 1.0	33.3 45.4 −33.1 56.2 323	0.0 0.112 1.0	28.3 18.1 −47.0 50.4 291	0.35 0.0 1.0	0.0 0.098 1.0	27.9 18.7 −47.0 50.7 291	0.35 0.0 1.0
325	292	292	0.366 0.0 1.0	33.6 46.9 −31.8 56.7 325	0.0 0.091 1.0	27.7 19.1 −47.1 50.9 292	0.367 0.0 1.0	0.0 0.079 1.0	27.4 19.6 −47.1 51.1 292	0.367 0.0 1.0
327	293	293	0.383 0.0 1.0	34.0 48.0 −30.9 57.1 327	0.0 0.07 1.0	27.2 20.1 −47.1 51.3 293	0.383 0.0 1.0	0.0 0.059 1.0	26.9 20.6 −47.2 51.6 293	0.383 0.0 1.0
328	294	294	0.4 0.0 1.0	34.6 48.9 −30.3 57.5 328	0.0 0.05 1.0	26.6 21.1 −47.2 51.8 294	0.4 0.0 1.0	0.0 0.04 1.0	26.4 21.6 −47.2 52.0 294	0.4 0.0 1.0
329	295	295	0.416 0.0 1.0	35.1 49.7 −29.7 57.9 329	0.0 0.029 1.0	26.1 22.1 −47.2 52.2 295	0.417 0.0 1.0	0.0 0.02 1.0	25.9 22.5 −47.3 52.4 295	0.417 0.0 1.0
330	296	296	0.433 0.0 1.0	35.7 50.5 −29.0 58.3 330	0.0 0.008 1.0	25.6 23.1 −47.3 52.7 296	0.433 0.0 1.0	0.0 0.001 1.0	25.3 23.5 −47.3 52.9 296	0.433 0.0 1.0
331	297	297	0.45 0.0 1.0	36.2 51.4 −28.4 58.7 331	0.007 0.0 1.0	25.6 24.0 −47.0 52.9 297	0.45 0.0 1.0	0.011 0.0 1.0	25.7 24.3 −46.9 52.9 297	0.45 0.0 1.0
332	298	298	0.466 0.0 1.0	36.7 52.2 −27.7 59.1 332	0.019 0.0 1.0	25.9 24.8 −46.6 52.9 298	0.467 0.0 1.0	0.023 0.0 1.0	26.1 25.1 −46.5 52.9 298	0.467 0.0 1.0
332	299	299	0.483 0.0 1.0	37.3 53.0 −27.0 59.5 332	0.031 0.0 1.0	26.3 25.7 −46.2 52.9 299	0.483 0.0 1.0	0.034 0.0 1.0	26.4 25.9 −46.1 53.0 299	0.483 0.0 1.0
333	300	300	0.5 0.0 1.0	37.8 53.8 −26.3 59.9 333	0.043 0.0 1.0	26.7 26.5 −45.8 53.0 300	0.5 0.0 1.0	0.046 0.0 1.0	26.8 26.6 −45.7 53.0 300	0.5 0.0 1.0

*rgb**$_{dd}$ *rgb**$_{ds}$ *rgb**$_{de}$

QE04 00L

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb**dd361M	*LAB**ddx361Mi (x=LabCh)	*rgb**ds361Mi	*LAB**dsx361Mi (x=LabCh)	*rgb**dd361Mi	*rgb**de361Mi	*LAB**dex361Mi (x=LabCh)	*rgb**dd361Mi
333	300	300	0.5 0.0 1.0	37.8 53.8 −26.3 59.9 333	0.043 0.0 1.0	26.7 26.5 −45.8 53.0 300	0.5 0.0 1.0	0.046 0.0 1.0	26.8 26.6 −45.7 53.0 300	0.5 0.0 1.0
334	301	301	0.516 0.0 1.0	38.3 54.5 −25.7 60.3 334	0.056 0.0 1.0	27.1 27.3 −45.3 53.0 301	0.517 0.0 1.0	0.057 0.0 1.0	27.2 27.4 −45.3 53.0 301	0.517 0.0 1.0
335	302	302	0.533 0.0 1.0	38.7 55.2 −25.2 60.6 335	0.068 0.0 1.0	27.5 28.1 −44.9 53.0 302	0.533 0.0 1.0	0.068 0.0 1.0	27.5 28.2 −44.8 53.0 302	0.533 0.0 1.0
336	303	303	0.55 0.0 1.0	39.1 55.8 −24.6 61.0 336	0.08 0.0 1.0	27.9 28.9 −44.4 53.1 303	0.55 0.0 1.0	0.08 0.0 1.0	27.9 28.9 −44.4 53.1 303	0.55 0.0 1.0
336	304	303	0.566 0.0 1.0	39.5 56.5 −24.0 61.4 336	0.092 0.0 1.0	28.3 29.7 −43.9 53.1 304	0.567 0.0 1.0	0.091 0.0 1.0	28.3 29.7 −43.9 53.1 303	0.567 0.0 1.0
337	305	304	0.583 0.0 1.0	39.9 57.2 −23.4 61.8 337	0.104 0.0 1.0	28.7 30.5 −43.4 53.1 305	0.583 0.0 1.0	0.103 0.0 1.0	28.6 30.4 −43.5 53.1 304	0.583 0.0 1.0
338	306	305	0.6 0.0 1.0	40.3 57.8 −22.8 62.2 338	0.116 0.0 1.0	29.0 31.2 −42.9 53.1 306	0.6 0.0 1.0	0.114 0.0 1.0	29.0 31.1 −43.0 53.1 305	0.6 0.0 1.0
339	307	306	0.616 0.0 1.0	40.7 58.5 −22.1 62.5 339	0.13 0.0 1.0	29.4 32.0 −42.4 53.2 307	0.617 0.0 1.0	0.126 0.0 1.0	29.4 31.9 −42.5 53.2 306	0.617 0.0 1.0
340	308	307	0.633 0.0 1.0	41.1 59.3 −21.4 63.0 340	0.151 0.0 1.0	29.8 32.8 −41.8 53.2 308	0.633 0.0 1.0	0.146 0.0 1.0	29.7 32.6 −42.0 53.2 307	0.633 0.0 1.0
341	309	308	0.65 0.0 1.0	41.4 60.3 −20.5 63.7 341	0.172 0.0 1.0	30.2 33.5 −41.3 53.3 309	0.65 0.0 1.0	0.166 0.0 1.0	30.1 33.3 −41.5 53.2 308	0.65 0.0 1.0
342	310	309	0.666 0.0 1.0	41.7 61.3 −19.7 64.3 342	0.193 0.0 1.0	30.6 34.3 −40.7 53.3 310	0.667 0.0 1.0	0.186 0.0 1.0	30.4 34.0 −40.9 53.3 309	0.667 0.0 1.0
343	311	310	0.683 0.0 1.0	41.9 62.2 −18.8 65.0 343	0.214 0.0 1.0	30.9 35.0 −40.2 53.3 311	0.683 0.0 1.0	0.205 0.0 1.0	30.8 34.7 −40.4 53.3 310	0.683 0.0 1.0
344	312	311	0.7 0.0 1.0	42.2 63.2 −17.8 65.6 344	0.234 0.0 1.0	31.3 35.7 −39.6 53.4 312	0.7 0.0 1.0	0.225 0.0 1.0	31.1 35.4 −39.8 53.4 311	0.7 0.0 1.0
345	313	312	0.716 0.0 1.0	42.5 64.1 −16.9 66.3 345	0.252 0.0 1.0	31.6 36.5 −39.0 53.5 313	0.717 0.0 1.0	0.245 0.0 1.0	31.5 36.1 −39.3 53.4 312	0.717 0.0 1.0
346	314	313	0.733 0.0 1.0	42.8 65.0 −15.9 66.9 346	0.261 0.0 1.0	31.8 37.3 −38.5 53.7 314	0.733 0.0 1.0	0.256 0.0 1.0	31.7 36.8 −38.8 53.6 313	0.733 0.0 1.0
347	315	314	0.75 0.0 1.0	43.1 65.9 −14.9 67.6 347	0.27 0.0 1.0	31.9 38.2 −38.1 54.0 315	0.75 0.0 1.0	0.265 0.0 1.0	31.8 37.7 −38.4 53.8 314	0.75 0.0 1.0
347	316	315	0.766 0.0 1.0	43.5 66.4 −14.5 68.0 347	0.279 0.0 1.0	32.1 39.0 −37.6 54.2 316	0.767 0.0 1.0	0.273 0.0 1.0	32.0 38.5 −37.9 54.1 315	0.767 0.0 1.0
348	317	316	0.783 0.0 1.0	43.8 66.9 −14.1 68.4 348	0.288 0.0 1.0	32.3 39.8 −37.1 54.5 317	0.783 0.0 1.0	0.282 0.0 1.0	32.1 39.3 −37.4 54.3 316	0.783 0.0 1.0
348	318	317	0.8 0.0 1.0	44.2 67.3 −13.7 68.7 348	0.297 0.0 1.0	32.4 40.7 −36.5 54.7 318	0.8 0.0 1.0	0.29 0.0 1.0	32.3 40.0 −36.9 54.5 317	0.8 0.0 1.0
348	319	318	0.816 0.0 1.0	44.6 67.8 −13.3 69.1 348	0.306 0.0 1.0	32.6 41.5 −36.0 55.0 319	0.817 0.0 1.0	0.299 0.0 1.0	32.4 40.8 −36.4 54.8 318	0.817 0.0 1.0
349	320	319	0.833 0.0 1.0	45.0 68.3 −12.9 69.5 349	0.315 0.0 1.0	32.7 42.3 −35.4 55.2 320	0.833 0.0 1.0	0.307 0.0 1.0	32.6 41.6 −35.9 55.0 319	0.833 0.0 1.0
349	321	320	0.85 0.0 1.0	45.3 68.8 −12.5 69.9 349	0.324 0.0 1.0	32.9 43.1 −34.8 55.5 321	0.85 0.0 1.0	0.315 0.0 1.0	32.7 42.4 −35.4 55.3 320	0.85 0.0 1.0
350	322	321	0.866 0.0 1.0	45.7 69.2 −12.1 70.3 350	0.333 0.0 1.0	33.1 43.9 −34.2 55.8 322	0.867 0.0 1.0	0.324 0.0 1.0	32.9 43.2 −34.8 55.5 321	0.867 0.0 1.0
350	323	321	0.883 0.0 1.0	46.1 69.7 −11.7 70.7 350	0.342 0.0 1.0	33.2 44.7 −33.6 56.0 323	0.883 0.0 1.0	0.332 0.0 1.0	33.0 43.9 −34.2 55.7 321	0.883 0.0 1.0
350	324	322	0.9 0.0 1.0	46.4 70.1 −11.2 71.0 350	0.351 0.0 1.0	33.4 45.5 −33.0 56.3 324	0.9 0.0 1.0	0.341 0.0 1.0	33.2 44.7 −33.7 56.0 322	0.9 0.0 1.0
351	325	323	0.916 0.0 1.0	46.7 70.6 −10.8 71.4 351	0.359 0.0 1.0	33.5 46.3 −32.3 56.5 325	0.917 0.0 1.0	0.349 0.0 1.0	33.4 45.4 −33.1 56.2 323	0.917 0.0 1.0
351	326	324	0.933 0.0 1.0	47.0 71.0 −10.3 71.8 351	0.368 0.0 1.0	33.7 47.1 −31.6 56.8 326	0.933 0.0 1.0	0.358 0.0 1.0	33.5 46.2 −32.4 56.5 324	0.933 0.0 1.0
352	327	325	0.95 0.0 1.0	47.3 71.5 −9.9 72.2 352	0.379 0.0 1.0	34.0 47.9 −31.0 57.1 327	0.95 0.0 1.0	0.366 0.0 1.0	33.7 46.9 −31.8 56.7 325	0.95 0.0 1.0
352	328	326	0.966 0.0 1.0	47.6 71.9 −9.4 72.5 352	0.397 0.0 1.0	34.5 48.7 −30.4 57.5 328	0.967 0.0 1.0	0.375 0.0 1.0	33.8 47.6 −31.2 57.0 326	0.967 0.0 1.0
352	329	327	0.983 0.0 1.0	47.9 72.4 −9.0 72.9 352	0.414 0.0 1.0	35.1 49.6 −29.7 57.9 329	0.983 0.0 1.0	0.391 0.0 1.0	34.3 48.4 −30.6 57.3 327	0.983 0.0 1.0
353	330	328	1.0 0.0 1.0	48.2 72.8 −8.5 73.3 353	M_d 0.432 0.0 1.0	35.7 50.5 −29.1 58.3 330	M_s 1.0 0.0 1.0	0.407 0.0 1.0	34.9 49.3 −30.0 57.7 328	M_e 1.0 0.0 1.0
353	331	329	1.0 0.0 0.983	48.2 72.7 −7.9 73.1 353	0.449 0.0 1.0	36.2 51.4 −28.4 58.7 331	1.0 0.0 0.983	0.424 0.0 1.0	35.4 50.1 −29.4 58.1 329	1.0 0.0 0.983
354	332	330	1.0 0.0 0.966	48.2 72.5 −7.4 72.9 354	0.467 0.0 1.0	36.8 52.2 −27.7 59.1 332	1.0 0.0 0.967	0.441 0.0 1.0	35.9 50.9 −28.7 58.5 330	1.0 0.0 0.967
354	333	331	1.0 0.0 0.95	48.2 72.4 −6.8 72.7 354	0.484 0.0 1.0	37.4 53.1 −26.9 59.6 333	1.0 0.0 0.95	0.457 0.0 1.0	36.5 51.8 −28.1 58.9 331	1.0 0.0 0.95
355	334	332	1.0 0.0 0.933	48.2 72.2 −6.2 72.5 355	0.502 0.0 1.0	37.9 53.9 −26.2 60.0 334	1.0 0.0 0.933	0.474 0.0 1.0	37.0 52.6 −27.4 59.3 332	1.0 0.0 0.933
355	335	333	1.0 0.0 0.916	48.2 72.0 −5.7 72.3 355	0.524 0.0 1.0	38.5 54.8 −25.5 60.5 335	1.0 0.0 0.917	0.49 0.0 1.0	37.6 53.4 −26.7 59.7 333	1.0 0.0 0.917
355	336	334	1.0 0.0 0.9	48.2 71.9 −5.1 72.1 355	0.546 0.0 1.0	39.0 55.7 −24.7 61.0 336	1.0 0.0 0.9	0.508 0.0 1.0	38.1 54.2 −26.0 60.1 334	1.0 0.0 0.9
356	337	335	1.0 0.0 0.883	48.2 71.7 −4.6 71.8 356	0.567 0.0 1.0	39.6 56.6 −23.9 61.5 337	1.0 0.0 0.883	0.529 0.0 1.0	38.6 55.0 −25.3 60.6 335	1.0 0.0 0.883
356	338	336	1.0 0.0 0.866	48.2 71.5 −4.0 71.7 356	0.589 0.0 1.0	40.1 57.5 −23.1 62.0 338	1.0 0.0 0.867	0.55 0.0 1.0	39.1 55.9 −24.6 61.1 336	1.0 0.0 0.867
357	339	337	1.0 0.0 0.85	48.2 71.4 −3.3 71.5 357	0.611 0.0 1.0	40.7 58.3 −22.3 62.5 339	1.0 0.0 0.85	0.57 0.0 1.0	39.6 56.7 −23.8 61.5 337	1.0 0.0 0.85
357	340	338	1.0 0.0 0.833	48.2 71.3 −2.7 71.3 357	0.631 0.0 1.0	41.1 59.2 −21.5 63.0 340	1.0 0.0 0.833	0.591 0.0 1.0	40.2 57.5 −23.0 62.0 338	1.0 0.0 0.833
358	341	339	1.0 0.0 0.816	48.2 71.1 −2.1 71.1 358	0.648 0.0 1.0	41.4 60.2 −20.6 63.7 341	1.0 0.0 0.817	0.612 0.0 1.0	40.7 58.3 −22.3 62.5 339	1.0 0.0 0.817
358	342	339	1.0 0.0 0.8	48.2 70.9 −1.4 71.0 358	0.664 0.0 1.0	41.7 61.1 −19.8 64.3 342	1.0 0.0 0.8	0.631 0.0 1.0	41.1 59.2 −21.5 63.0 339	1.0 0.0 0.8
359	343	340	1.0 0.0 0.783	48.1 70.8 −0.8 70.8 359	0.68 0.0 1.0	41.9 62.1 −18.9 64.9 343	1.0 0.0 0.783	0.646 0.0 1.0	41.4 60.1 −20.7 63.6 340	1.0 0.0 0.783
359	344	341	1.0 0.0 0.766	48.1 70.6 −0.2 70.6 359	0.697 0.0 1.0	42.2 63.0 −18.0 65.6 344	1.0 0.0 0.767	0.662 0.0 1.0	41.6 61.0 −19.9 64.2 341	1.0 0.0 0.767
360	345	342	1.0 0.0 0.75	48.1 70.4 0.3 70.4 360	0.713 0.0 1.0	42.5 64.0 −17.0 66.2 345	1.0 0.0 0.75	0.678 0.0 1.0	41.9 61.9 −19.0 64.8 342	1.0 0.0 0.75

*rgb**$_{dd}$ *rgb**$_{ds}$ *rgb**$_{de}$

1−0031530−L0 QE040−70 LAB*la0, YN=0%, XYZnw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*nw=17.7, 0.0, 0.0, 95.5, 0.0, 0.0 Output: Offset standard print; separation cmyn6*, D65, page 16/33

QE04 00L

Data of Maximum color M in colorimetric system Offset standard print; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGCBM*$_s$: $h_{ab,ds}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours *RYGCBM*$_d$: $h_{ab,d}$ = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours *RYGCBM*$_e$: $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	*rgb*dd361M*			*LAB*ddx361Mi (x=LabCh)*					*rgb*ds361Mi*			*LAB*dsx361Mi (x=LabCh)*					*rgb*dd361Mi*			*rgb*de361Mi*			*LAB*dex361Mi (x=LabCh)*					*rgb*dd361Mi*			*rgb*dd* *rgb*ds* *rgb*de*
360	345	342	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360	0.713	0.0	1.0	42.5	64.0	−17.0	66.2	345	1.0	0.0	0.75	0.678	0.0	1.0	41.9	61.9	−19.0	64.8	342	1.0	0.0	0.75	
361	346	343	1.0	0.0	0.733	48.1	70.3	1.3	70.3	361	0.73	0.0	1.0	42.8	64.9	−16.1	66.9	346	1.0	0.0	0.733	0.693	0.0	1.0	42.2	62.8	−18.2	65.4	343	1.0	0.0	0.733	
361	347	344	1.0	0.0	0.716	48.1	70.1	2.2	70.1	361	0.746	0.0	1.0	43.1	65.8	−15.1	67.5	347	1.0	0.0	0.717	0.709	0.0	1.0	42.4	63.7	−17.3	66.0	344	1.0	0.0	0.717	
362	348	345	1.0	0.0	0.7	48.1	69.9	3.1	70.0	362	0.782	0.0	1.0	43.9	66.9	−14.1	68.4	348	1.0	0.0	0.7	0.724	0.0	1.0	42.7	64.6	−16.4	66.6	345	1.0	0.0	0.7	
363	349	346	1.0	0.0	0.683	48.1	69.7	4.0	69.8	363	0.823	0.0	1.0	44.8	68.0	−13.1	69.3	349	1.0	0.0	0.683	0.74	0.0	1.0	43.0	65.4	−15.5	67.3	346	1.0	0.0	0.683	
364	350	347	1.0	0.0	0.666	48.0	69.5	4.9	69.7	364	0.864	0.0	1.0	45.7	69.2	−12.1	70.3	350	1.0	0.0	0.667	0.764	0.0	1.0	43.4	66.4	−14.5	68.0	347	1.0	0.0	0.667	
364	351	348	1.0	0.0	0.65	48.0	69.3	5.7	69.5	364	0.905	0.0	1.0	46.5	70.3	−11.0	71.2	351	1.0	0.0	0.65	0.803	0.0	1.0	44.3	67.5	−13.6	68.9	348	1.0	0.0	0.65	
365	352	349	1.0	0.0	0.633	48.0	69.0	6.6	69.3	365	0.946	0.0	1.0	47.3	71.4	−9.9	72.1	352	1.0	0.0	0.633	0.842	0.0	1.0	45.2	68.6	−12.7	69.8	349	1.0	0.0	0.633	
366	353	350	1.0	0.0	0.616	48.0	68.8	7.5	69.2	366	0.988	0.0	1.0	48.0	72.5	−8.8	73.1	353	1.0	0.0	0.617	0.881	0.0	1.0	46.1	69.7	−11.7	70.6	350	1.0	0.0	0.617	
367	354	351	1.0	0.0	0.6	47.9	68.7	8.5	69.2	367	1.0	0.0	0.973	48.3	72.6	−7.5	73.0	354	1.0	0.0	0.6	0.92	0.0	1.0	46.8	70.7	−10.7	71.5	351	1.0	0.0	0.6	
367	355	352	1.0	0.0	0.583	47.9	68.6	9.4	69.2	367	1.0	0.0	0.935	48.3	72.3	−6.2	72.5	355	1.0	0.0	0.583	0.959	0.0	1.0	47.5	71.8	−9.6	72.4	352	1.0	0.0	0.583	
368	356	353	1.0	0.0	0.566	47.9	68.4	10.3	69.2	368	1.0	0.0	0.896	48.3	71.9	−4.9	72.1	356	1.0	0.0	0.567	0.998	0.0	1.0	48.2	72.8	−8.5	73.3	353	1.0	0.0	0.567	
369	357	354	1.0	0.0	0.55	47.8	68.2	11.2	69.2	369	1.0	0.0	0.86	48.3	71.5	−3.6	71.6	357	1.0	0.0	0.55	1.0	0.0	0.965	48.3	72.6	−7.3	72.9	354	1.0	0.0	0.55	
370	358	355	1.0	0.0	0.533	47.8	68.1	12.1	69.1	370	1.0	0.0	0.827	48.2	71.2	−2.4	71.3	358	1.0	0.0	0.533	1.0	0.0	0.929	48.3	72.2	−6.0	72.5	355	1.0	0.0	0.533	
370	359	356	1.0	0.0	0.516	47.7	67.9	13.1	69.1	370	1.0	0.0	0.794	48.2	70.9	−1.1	70.9	359	1.0	0.0	0.517	1.0	0.0	0.892	48.3	71.8	−4.8	72.0	356	1.0	0.0	0.517	
371	360	352	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371	1.0	0.0	0.761	48.2	70.6	0.0	70.6	360	1.0	0.0	0.5	0.949	0.0	1.0	47.3	71.5	−9.9	72.2	352	1.0	0.0	0.5	
372	361	353	1.0	0.0	0.483	47.7	67.5	15.0	69.2	372	1.0	0.0	0.735	48.1	70.3	1.2	70.3	361	1.0	0.0	0.483	0.995	0.0	1.0	48.2	72.7	−8.6	73.2	353	1.0	0.0	0.483	
373	362	354	1.0	0.0	0.466	47.7	67.3	16.1	69.2	373	1.0	0.0	0.712	48.1	70.1	2.4	70.1	362	1.0	0.0	0.467	1.0	0.0	0.962	48.3	72.5	−7.2	72.9	354	1.0	0.0	0.467	
374	363	355	1.0	0.0	0.45	47.7	67.2	17.1	69.3	374	1.0	0.0	0.69	48.1	69.8	3.7	69.9	363	1.0	0.0	0.45	1.0	0.0	0.919	48.3	72.1	−5.7	72.3	355	1.0	0.0	0.45	
375	364	356	1.0	0.0	0.433	47.7	67.0	18.2	69.4	375	1.0	0.0	0.667	48.1	69.5	4.9	69.7	364	1.0	0.0	0.433	1.0	0.0	0.876	48.3	71.7	−4.3	71.8	356	1.0	0.0	0.433	
376	365	357	1.0	0.0	0.416	47.7	66.7	19.2	69.5	376	1.0	0.0	0.645	48.1	69.2	6.1	69.5	365	1.0	0.0	0.417	1.0	0.0	0.839	48.3	71.4	−2.9	71.4	357	1.0	0.0	0.417	
376	366	358	1.0	0.0	0.4	47.7	66.5	20.3	69.5	376	1.0	0.0	0.623	48.0	68.9	7.2	69.3	366	1.0	0.0	0.4	1.0	0.0	0.802	48.2	71.0	−1.5	71.0	358	1.0	0.0	0.4	
377	367	359	1.0	0.0	0.383	47.7	66.3	21.3	69.6	377	1.0	0.0	0.601	48.0	68.8	8.4	69.3	367	1.0	0.0	0.383	1.0	0.0	0.765	48.2	70.6	−0.1	70.6	359	1.0	0.0	0.383	
378	368	360	1.0	0.0	0.366	47.7	66.1	22.3	69.7	378	1.0	0.0	0.58	47.9	68.6	9.6	69.3	368	1.0	0.0	0.367	1.0	0.0	0.735	48.1	70.3	1.2	70.3	360	1.0	0.0	0.367	
379	369	362	1.0	0.0	0.35	47.7	66.0	23.2	69.9	379	1.0	0.0	0.558	47.9	68.4	10.8	69.2	369	1.0	0.0	0.35	1.0	0.0	0.71	48.1	70.1	2.6	70.1	362	1.0	0.0	0.35	
380	370	363	1.0	0.0	0.333	47.7	65.8	24.2	70.2	380	1.0	0.0	0.536	47.8	68.1	12.0	69.2	370	1.0	0.0	0.333	1.0	0.0	0.685	48.1	69.8	3.9	69.9	363	1.0	0.0	0.333	
380	371	364	1.0	0.0	0.316	47.7	65.7	25.1	70.4	380	1.0	0.0	0.515	47.8	67.9	13.2	69.2	371	1.0	0.0	0.317	1.0	0.0	0.66	48.1	69.4	5.2	69.6	364	1.0	0.0	0.317	
381	372	365	1.0	0.0	0.3	47.7	65.6	26.0	70.6	381	1.0	0.0	0.494	47.8	67.7	14.4	69.2	372	1.0	0.0	0.3	1.0	0.0	0.635	48.1	69.1	6.6	69.4	365	1.0	0.0	0.3	
382	373	366	1.0	0.0	0.283	47.7	65.4	27.0	70.8	382	1.0	0.0	0.475	47.8	67.5	15.6	69.3	373	1.0	0.0	0.283	1.0	0.0	0.611	48.0	68.8	7.9	69.3	366	1.0	0.0	0.283	
383	374	367	1.0	0.0	0.266	47.7	65.2	27.9	71.0	383	1.0	0.0	0.456	47.8	67.3	16.8	69.3	374	1.0	0.0	0.267	1.0	0.0	0.587	48.0	68.6	9.2	69.3	367	1.0	0.0	0.267	
383	375	368	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383	1.0	0.0	0.437	47.8	67.1	18.0	69.4	375	1.0	0.0	0.25	1.0	0.0	0.563	47.9	68.4	10.6	69.2	368	1.0	0.0	0.25	
384	376	369	1.0	0.0	0.233	47.6	65.0	29.7	71.5	384	1.0	0.0	0.418	47.8	66.8	19.2	69.5	376	1.0	0.0	0.233	1.0	0.0	0.539	47.8	68.2	11.9	69.2	369	1.0	0.0	0.233	
385	377	370	1.0	0.0	0.216	47.6	64.9	30.5	71.8	385	1.0	0.0	0.399	47.8	66.5	20.3	69.6	377	1.0	0.0	0.217	1.0	0.0	0.515	47.8	67.9	13.2	69.2	370	1.0	0.0	0.217	
385	378	372	1.0	0.0	0.2	47.6	64.9	31.4	72.1	385	1.0	0.0	0.38	47.8	66.3	21.5	69.7	378	1.0	0.0	0.2	1.0	0.0	0.492	47.8	67.6	14.5	69.2	372	1.0	0.0	0.2	
386	379	373	1.0	0.0	0.183	47.5	64.8	32.2	72.4	386	1.0	0.0	0.359	47.8	66.1	22.8	69.9	379	1.0	0.0	0.183	1.0	0.0	0.471	47.8	67.4	15.8	69.3	373	1.0	0.0	0.183	
387	380	374	1.0	0.0	0.166	47.5	64.7	33.0	72.7	387	1.0	0.0	0.337	47.8	65.9	24.0	70.2	380	1.0	0.0	0.167	1.0	0.0	0.45	47.8	67.2	17.2	69.4	374	1.0	0.0	0.167	
387	381	375	1.0	0.0	0.15	47.5	64.6	33.9	72.9	387	1.0	0.0	0.315	47.8	65.7	25.2	70.4	381	1.0	0.0	0.15	1.0	0.0	0.429	47.8	67.0	18.5	69.5	375	1.0	0.0	0.15	
388	382	376	1.0	0.0	0.133	47.4	64.5	34.7	73.2	388	1.0	0.0	0.293	47.7	65.5	26.5	70.7	382	1.0	0.0	0.133	1.0	0.0	0.408	47.8	66.7	19.8	69.6	376	1.0	0.0	0.133	
388	383	377	1.0	0.0	0.116	47.4	64.4	35.5	73.6	388	1.0	0.0	0.271	47.7	65.3	27.7	71.0	383	1.0	0.0	0.117	1.0	0.0	0.386	47.8	66.4	21.2	69.6	377	1.0	0.0	0.117	
389	384	378	1.0	0.0	0.1	47.4	64.3	36.3	73.9	389	1.0	0.0	0.249	47.7	65.1	29.0	71.2	384	1.0	0.0	0.1	1.0	0.0	0.364	47.8	66.1	22.5	69.8	378	1.0	0.0	0.1	
390	385	379	1.0	0.0	0.083	47.4	64.3	37.1	74.2	390	1.0	0.0	0.222	47.7	65.0	30.3	71.7	385	1.0	0.0	0.083	1.0	0.0	0.339	47.8	65.9	23.9	70.1	379	1.0	0.0	0.083	
390	386	381	1.0	0.0	0.066	47.4	64.2	37.9	74.6	390	1.0	0.0	0.195	47.6	64.9	31.6	72.2	386	1.0	0.0	0.067	1.0	0.0	0.315	47.8	65.7	25.3	70.4	381	1.0	0.0	0.067	
391	387	382	1.0	0.0	0.049	47.4	64.1	38.7	74.9	391	1.0	0.0	0.169	47.6	64.7	33.0	72.7	387	1.0	0.0	0.05	1.0	0.0	0.29	47.7	65.5	26.7	70.7	382	1.0	0.0	0.05	
391	388	383	1.0	0.0	0.033	47.3	64.0	39.5	75.3	391	1.0	0.0	0.142	47.5	64.6	34.3	73.1	388	1.0	0.0	0.033	1.0	0.0	0.266	47.7	65.3	28.0	71.0	383	1.0	0.0	0.033	
392	389	384	1.0	0.0	0.016	47.3	63.9	40.3	75.6	392	1.0	0.0	0.114	47.5	64.4	35.7	73.7	389	1.0	0.0	0.017	1.0	0.0	0.239	47.7	65.1	29.5	71.4	384	1.0	0.0	0.017	
392	390	385	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392	R_d	1.0	0.0	0.084	47.4	64.3	37.1	74.3	390	R_s	1.0	0.0	0.0	1.0	0.0	0.209	47.6	64.9	30.9	71.9	385	R_e	1.0	0.0	0.0	

TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
48 step hue circles; *rgb−LabCh**tables

input: *rgb/cmyk −> rgb*$_d$
output: transfer to *cmyk*$_d$

n/j	HIC*Fd	*rgb*_Fd			*ict*_Fd			$h_{si\_F,d}$	*rgb**Fd			*LabCh**Fd					*rgb*'Fd			*LabCh*'Fd					*DE*'Fd	$h_{siM,d}$	*rgb**Md			*LabCh**Md				
0/648	R00Y_100_100d	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	0.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
1/657	R13Y_100_100d	1.0	0.125	0.0	1.0	1.0	0.5	37	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39.9	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4	0.7	36	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39.9
2/666	R25Y_100_100d	1.0	0.25	0.0	1.0	1.0	0.5	44	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	1.7	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
3/675	R38Y_100_100d	1.0	0.375	0.0	1.0	1.0	0.5	52	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60.4	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1	0.9	51	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60.4
4/684	R50Y_100_100d	1.0	0.5	0.0	1.0	1.0	0.5	60	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	0.0	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
5/693	R63Y_100_100d	1.0	0.625	0.0	1.0	1.0	0.5	68	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7	0.8	68	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82.2
6/702	R75Y_100_100d	1.0	0.75	0.0	1.0	1.0	0.5	76	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	1.4	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
7/711	R88Y_100_100d	1.0	0.875	0.0	1.0	1.0	0.5	83	1.0	0.883	0.0	84.5	−6.1	89.8	90.0	93.8	1.0	0.875	0.0	84.2	−5.7	89.4	89.6	93.6	0.6	83	1.0	0.883	0.0	84.5	−6.1	89.8	90.0	93.8
8/720	Y00G_100_100d	1.0	1.0	0.0	1.0	1.0	0.5	90	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	0.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
9/639	Y13G_100_100d	0.875	1.0	0.0	1.0	1.0	0.5	97	0.883	1.0	0.0	86.0	−15.9	89.0	90.4	100.1	0.875	1.0	0.0	85.8	−16.2	88.6	90.0	100.3	0.5	96	0.883	1.0	0.0	86.0	−15.9	89.0	90.4	100.1
10/558	Y25G_100_100d	0.75	1.0	0.0	1.0	1.0	0.5	104	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9	0.75	1.0	0.0	82.9	−19.7	83.0	85.3	103.3	0.9	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
11/477	Y38G_100_100d	0.625	1.0	0.0	1.0	1.0	0.5	112	0.633	1.0	0.0	77.4	−24.9	76.8	80.7	107.9	0.625	1.0	0.0	77.0	−25.2	76.3	80.4	108.3	0.6	111	0.633	1.0	0.0	77.4	−24.9	76.8	80.7	107.9
12/396	Y50G_100_100d	0.5	1.0	0.0	1.0	1.0	0.5	120	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.0	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
13/315	Y63G_100_100d	0.375	1.0	0.0	1.0	1.0	0.5	128	0.366	1.0	0.0	68.3	−37.7	57.4	68.7	123.2	0.375	1.0	0.0	68.9	−36.9	58.1	68.8	122.4	1.1	128	0.366	1.0	0.0	68.3	−37.7	57.4	68.7	123.2
14/234	Y75G_100_100d	0.25	1.0	0.0	1.0	1.0	0.5	136	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2	0.25	1.0	0.0	60.8	−47.8	47.8	67.6	134.9	1.5	137	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2
15/153	Y88G_100_100d	0.125	1.0	0.0	1.0	1.0	0.5	143	0.116	1.0	0.0	57.0	−55.9	38.3	67.8	145.5	0.125	1.0	0.0	57.4	−54.9	38.9	67.3	144.6	1.1	143	0.116	1.0	0.0	57.0	−55.9	38.3	67.8	145.5
16/72	G00C_100_100d	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
17/73	G13C_100_100d	0.0	1.0	0.125	1.0	1.0	0.5	157	0.0	1.0	0.116	52.5	−66.6	19.9	69.5	163.3	0.0	1.0	0.125	52.5	−66.4	19.3	69.1	163.7	0.5	156	0.0	1.0	0.116	52.5	−66.6	19.9	69.5	163.3
18/74	G25C_100_100d	0.0	1.0	0.25	1.0	1.0	0.5	164	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170.9	1.3	162	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0
19/75	G38C_100_100d	0.0	1.0	0.375	1.0	1.0	0.5	172	0.0	1.0	0.366	54.0	−57.3	−0.4	57.3	180.4	0.0	1.0	0.375	54.1	−56.9	−1.0	56.9	181.0	0.7	171	0.0	1.0	0.366	54.0	−57.3	−0.4	57.3	180.4
20/76	G50C_100_100d	0.0	1.0	0.5	1.0	1.0	0.5	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
21/77	G63C_100_100d	0.0	1.0	0.625	1.0	1.0	0.5	188	0.0	1.0	0.633	55.8	−44.7	−22.5	50.1	206.7	0.0	1.0	0.625	55.8	−45.1	−21.9	50.1	205.9	0.7	188	0.0	1.0	0.633	55.8	−44.7	−22.5	50.1	206.7
22/78	G75C_100_100d	0.0	1.0	0.75	1.0	1.0	0.5	196	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6	0.0	1.0	0.75	56.7	−38.9	−30.9	49.7	218.4	1.0	197	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6
23/79	G88C_100_100d	0.0	1.0	0.875	1.0	1.0	0.5	203	0.0	1.0	0.883	57.6	−34.0	−37.7	50.8	227.9	0.0	1.0	0.875	57.5	−34.3	−37.2	50.6	227.3	0.5	203	0.0	1.0	0.883	57.6	−34.0	−37.7	50.8	227.9
24/80	C00B_100_100d	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
25/71	C13B_100_100d	0.0	0.875	1.0	1.0	1.0	0.5	217	0.0	0.883	1.0	55.4	−25.2	−43.9	50.7	240.0	0.0	0.875	1.0	55.2	−25.0	−43.9	50.5	240.3	0.3	216	0.0	0.883	1.0	55.4	−25.2	−43.9	50.7	240.0
26/62	C25B_100_100d	0.0	0.75	1.0	1.0	1.0	0.5	224	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1	0.0	0.75	1.0	51.7	−19.7	−44.1	48.3	245.8	0.8	222	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1
27/53	C38B_100_100d	0.0	0.625	1.0	1.0	1.0	0.5	232	0.0	0.633	1.0	48.0	−14.3	−44.4	46.6	252.1	0.0	0.625	1.0	47.7	−13.9	−44.4	46.5	252.5	0.4	231	0.0	0.633	1.0	48.0	−14.3	−44.4	46.6	252.1
28/44	C50B_100_100d	0.0	0.5	1.0	1.0	1.0	0.5	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
29/35	C63B_100_100d	0.0	0.375	1.0	1.0	1.0	0.5	248	0.0	0.366	1.0	37.6	1.8	−45.5	45.5	272.3	0.0	0.375	1.0	37.9	1.3	−45.4	45.4	271.7	0.6	248	0.0	0.366	1.0	37.6	1.8	−45.5	45.5	272.3
30/26	C75B_100_100d	0.0	0.25	1.0	1.0	1.0	0.5	256	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8	0.0	0.25	1.0	33.3	9.4	−46.0	47.0	281.6	1.2	257	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8
31/17	C88B_100_100d	0.0	0.125	1.0	1.0	1.0	0.5	263	0.0	0.116	1.0	28.3	17.8	−47.0	50.3	290.7	0.0	0.125	1.0	28.6	17.4	−46.9	50.1	290.3	0.4	263	0.0	0.116	1.0	28.3	17.8	−47.0	50.3	290.7
32/8	B00M_100_100d	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
33/89	B13M_100_100d	0.125	0.0	1.0	1.0	1.0	0.5	277	0.116	0.0	1.0	29.0	31.2	−42.9	53.1	306.0	0.125	0.0	1.0	29.3	31.8	−42.6	53.1	306.7	0.6	276	0.116	0.0	1.0	29.0	31.2	−42.9	53.1	306.0
34/170	B25M_100_100d	0.25	0.0	1.0	1.0	1.0	0.5	284	0.233	0.0	1.0	31.2	35.6	−39.6	53.3	311.9	0.25	0.0	1.0	31.5	36.2	−39.2	53.4	312.7	0.8	282	0.233	0.0	1.0	31.2	35.6	−39.6	53.3	311.9
35/251	B38M_100_100d	0.375	0.0	1.0	1.0	1.0	0.5	292	0.366	0.0	1.0	33.6	46.9	−31.8	56.7	325.8	0.375	0.0	1.0	33.8	47.6	−31.2	56.9	326.7	0.9	291	0.366	0.0	1.0	33.6	46.9	−31.8	56.7	325.8
36/332	B50M_100_100d	0.5	0.0	1.0	1.0	1.0	0.5	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.0	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
37/413	B63M_100_100d	0.625	0.0	1.0	1.0	1.0	0.5	308	0.633	0.0	1.0	41.1	59.3	−21.4	63.0	340.1	0.625	0.0	1.0	40.9	58.8	−21.8	62.7	339.6	0.6	308	0.633	0.0	1.0	41.1	59.3	−21.4	63.0	340.1
38/494	B75M_100_100d	0.75	0.0	1.0	1.0	1.0	0.5	316	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6	0.75	0.0	1.0	43.1	65.9	−14.9	67.6	347.2	0.7	317	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6
39/575	B88M_100_100d	0.875	0.0	1.0	1.0	1.0	0.5	323	0.883	0.0	1.0	46.1	69.7	−11.7	70.7	350.4	0.875	0.0	1.0	45.9	69.4	−11.9	70.5	350.2	0.3	323	0.883	0.0	1.0	46.1	69.7	−11.7	70.7	350.4
40/656	M00R_100_100d	1.0	0.0	1.0	1.0	1.0	0.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	0.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
41/655	M13R_100_100d	1.0	0.0	0.875	1.0	1.0	0.5	337	1.0	0.0	0.883	48.2	71.7	−4.6	71.8	356.3	1.0	0.0	0.875	48.2	71.6	−4.3	71.7	356.5	0.2	336	1.0	0.0	0.883	48.2	71.7	−4.6	71.8	356.3
42/654	M25R_100_100d	1.0	0.0	0.75	1.0	1.0	0.5	344	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3	0.6	342	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
43/653	M38R_100_100d	1.0	0.0	0.625	1.0	1.0	0.5	352	1.0	0.0	0.633	48.0	69.0	6.6	69.3	5.5	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8	0.4	351	1.0	0.0	0.633	48.0	69.0	6.6	69.3	5.5
44/652	M50R_100_100d	1.0	0.0	0.5	1.0	1.0	0.5	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6	0.0	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
45/651	M63R_100_100d	1.0	0.0	0.375	1.0	1.0	0.5	368	1.0	0.0	0.366	47.7	66.1	22.3	69.7	18.6	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2	0.4	368	1.0	0.0	0.366	47.7	66.1	22.3	69.7	18.6
46/650	M75R_100_100d	1.0	0.0	0.25	1.0	1.0	0.5	376	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9	0.8	377	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
47/649	M88R_100_100d	1.0	0.0	0.125	1.0	1.0	0.5	383	1.0	0.0	0.116	47.4	64.4	35.5	73.6	28.9	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6	0.3	383	1.0	0.0	0.116	47.4	64.4	35.5	73.6	28.9
48/648	R00Y_100_100d	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8	0.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
49/0	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.2	54.9	46.7	72.1	400.4	79.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
50/91	NW_013d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	17.7	0.0	0.0	0.0	0.0	9.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
51/182	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	28.0	−0.2	−0.4	0.5	238.7	9.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
52/273	NW_038d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	42.2	−0.5	−0.7	0.9	235.1	4.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
53/364	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	55.0	−0.4	−0.6	0.7	234.3	1.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
54/455	NW_063d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	63.4	−0.4	−0.6	0.7	235.9	2.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
55/546	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	72.2	−0.3	−0.4	0.5	236.5	3.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
56/637	NW_088d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	80.8	−0.2	−0.4	0.5	237.4	4.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
57/728	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	89.7	−0.1	−0.1	0.2	234.3	5.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: **delta *E**' = *2.6***

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

1−0031730−F0

n/j	HIC*$_{Fd}$	*rgb*$_{Fd}$			*ict*$_{Fd}$			h_{si_Fd}	*rgb**$_{Fd}$			*LabCh**$_{Fd}$					*rgb*'*$_{Fd}$			*LabCh*'*$_{Fd}$					*DE*'*$_{Fd}$	$h_{siM,d}$	*rgb**$_{Md}$			*LabCh**$_{Md}$				
0/648	R00Y_100_100$_d$	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	0.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
1/666	R25Y_100_100$_d$	1.0	0.25	0.0	1.0	1.0	0.5	44	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	1.7	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
2/684	R50Y_100_100$_d$	1.0	0.5	0.0	1.0	1.0	0.5	60	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	0.0	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
3/702	R75Y_100_100$_d$	1.0	0.75	0.0	1.0	1.0	0.5	76	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	1.4	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
4/720	Y00G_100_100$_d$	1.0	1.0	0.0	1.0	1.0	0.5	90	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	0.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
5/558	Y25G_100_100$_d$	0.75	1.0	0.0	1.0	1.0	0.5	104	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9	0.75	1.0	0.0	82.9	−19.7	83.0	85.3	103.3	0.9	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
6/396	Y50G_100_100$_d$	0.5	1.0	0.0	1.0	1.0	0.5	120	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.0	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
7/234	Y75G_100_100$_d$	0.25	1.0	0.0	1.0	1.0	0.5	136	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2	0.25	1.0	0.0	60.8	−47.8	47.8	67.6	134.9	1.5	137	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2
8/72	G00B_100_100$_d$	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
9/72	G00B_100_100$_d$	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
10/76	G25B_100_100$_d$	0.0	1.0	0.5	1.0	1.0	0.5	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
11/80	G50B_100_100$_d$	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
12/44	G75B_100_100$_d$	0.0	0.5	1.0	1.0	1.0	0.5	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
13/8	B00M_100_100$_d$	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
14/332	B25R_100_100$_d$	0.5	0.0	1.0	1.0	1.0	0.5	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.0	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
15/656	B50R_100_100$_d$	1.0	0.0	1.0	1.0	1.0	0.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	0.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
16/652	B75R_100_100$_d$	1.0	0.0	0.5	1.0	1.0	0.5	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6	0.0	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
17/648	R00Y_100_100$_d$	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	0.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
18/688	R00Y_100_050$_d$	1.0	0.5	0.5	1.0	0.5	0.75	390	1.0	0.5	0.5	71.4	31.9	20.6	38.0	32.8	1.0	0.5	0.5	69.7	25.2	25.3	35.7	45.0	8.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
19/706	R50Y_100_050$_d$	1.0	0.75	0.5	1.0	0.5	0.75	60	1.0	0.75	0.5	81.3	11.3	33.8	35.6	71.4	1.0	0.75	0.5	81.6	6.5	33.0	33.6	78.8	4.8	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
20/724	Y00G_100_050$_d$	1.0	1.0	0.5	1.0	0.5	0.75	90	1.0	1.0	0.5	91.9	−5.9	47.5	47.9	97.1	1.0	1.0	0.5	91.8	−8.4	41.3	42.2	101.5	6.6	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
21/562	Y50G_100_050$_d$	0.75	1.0	0.5	1.0	0.5	0.75	120	0.75	1.0	0.5	84.1	−15.6	33.0	36.5	115.3	0.75	1.0	0.5	85.6	−14.8	29.6	33.1	116.5	3.8	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
22/400	G00B_100_050$_d$	0.5	1.0	0.5	1.0	0.5	0.75	150	0.5	1.0	0.5	73.7	−34.4	14.0	37.1	157.7	0.5	1.0	0.5	76.0	−24.2	18.2	30.3	142.9	11.2	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
23/404	G50B_100_050$_d$	0.5	1.0	1.0	1.0	0.5	0.75	210	0.5	1.0	1.0	76.9	−14.6	−21.8	26.3	236.1	0.5	1.0	1.0	80.2	−12.0	−18.3	21.9	236.6	5.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
24/368	B00R_100_050$_d$	0.5	0.5	1.0	1.0	0.5	0.75	270	0.5	0.5	1.0	60.4	11.7	−23.6	26.4	296.4	0.5	0.5	1.0	60.0	15.5	−22.8	27.6	304.1	3.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
25/692	B50R_100_050$_d$	1.0	0.5	1.0	1.0	0.5	0.75	330	1.0	0.5	1.0	71.8	36.4	−4.2	36.6	353.3	1.0	0.5	1.0	72.3	31.2	−6.6	31.9	348.0	5.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
26/688	R00Y_100_050$_d$	1.0	0.5	0.5	1.0	0.5	0.75	390	1.0	0.5	0.5	71.4	31.9	20.6	38.0	32.8	1.0	0.5	0.5	69.7	25.2	25.3	35.7	45.0	8.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
27/506	R00Y_075_050$_d$	0.75	0.25	0.25	0.75	0.5	0.5	390	0.75	0.25	0.25	51.9	31.9	20.6	38.0	32.8	0.75	0.25	0.25	53.0	29.2	26.0	39.1	41.6	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
28/524	R50Y_075_050$_d$	0.75	0.5	0.25	0.75	0.5	0.5	60	0.75	0.5	0.25	61.9	11.3	33.8	35.6	71.4	0.75	0.5	0.25	66.3	6.8	35.2	35.9	78.9	6.4	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
29/542	Y00G_075_050$_d$	0.75	0.75	0.25	0.75	0.5	0.5	90	0.75	0.75	0.25	72.4	−5.9	47.5	47.9	97.1	0.75	0.75	0.25	76.8	−9.0	43.9	44.8	101.6	6.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
30/380	Y50G_075_050$_d$	0.5	0.75	0.25	0.75	0.5	0.5	120	0.5	0.75	0.25	64.6	−15.6	33.0	36.5	115.3	0.5	0.75	0.25	68.9	−16.8	33.8	37.8	116.4	4.4	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
31/218	G00B_075_050$_d$	0.25	0.75	0.25	0.75	0.5	0.5	150	0.25	0.75	0.25	54.2	−34.4	14.0	37.1	157.7	0.25	0.75	0.25	57.4	−29.4	20.1	35.6	145.6	8.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
32/222	G50B_075_050$_d$	0.25	0.75	0.75	0.75	0.5	0.5	210	0.25	0.75	0.75	57.4	−14.6	−21.8	26.3	236.1	0.25	0.75	0.75	61.9	−14.4	−21.4	25.8	236.0	4.4	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
33/186	B00R_075_050$_d$	0.25	0.25	0.75	0.75	0.5	0.5	270	0.25	0.25	0.75	40.9	11.7	−23.6	26.4	296.4	0.25	0.25	0.75	42.5	13.8	−25.3	28.9	298.6	3.1	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
34/510	B50R_075_050$_d$	0.75	0.25	0.75	0.75	0.5	0.5	330	0.75	0.25	0.75	52.4	36.4	−4.2	36.6	353.3	0.75	0.25	0.75	55.1	35.4	−7.4	36.2	348.1	4.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
35/506	R00Y_075_050$_d$	0.75	0.25	0.25	0.75	0.5	0.5	390	0.75	0.25	0.25	51.9	31.9	20.6	38.0	32.8	0.75	0.25	0.25	53.0	29.2	26.0	39.1	41.6	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
36/324	R00Y_050_050$_d$	0.5	0.0	0.0	0.5	0.5	0.25	390	0.5	0.0	0.0	32.5	31.9	20.6	38.0	32.8	0.5	0.0	0.0	34.1	34.6	23.9	42.1	34.6	4.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
37/342	R50Y_050_050$_d$	0.5	0.25	0.0	0.5	0.5	0.25	60	0.5	0.25	0.0	42.4	11.3	33.8	35.6	71.4	0.5	0.25	0.0	48.0	7.3	38.6	39.3	79.2	8.3	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
38/360	Y00G_050_050$_d$	0.5	0.5	0.0	0.5	0.5	0.25	90	0.5	0.5	0.0	53.0	−5.9	47.5	47.9	97.1	0.5	0.5	0.0	58.5	−9.2	49.7	50.6	100.5	6.7	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
39/198	Y50G_050_050$_d$	0.25	0.5	0.0	0.5	0.5	0.25	120	0.25	0.5	0.0	45.2	−15.6	33.0	36.5	115.3	0.25	0.5	0.0	49.3	−19.6	36.6	41.5	118.1	6.7	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
40/36	G00B_050_050$_d$	0.0	0.5	0.0	0.5	0.5	0.25	150	0.0	0.5	0.0	34.8	−34.4	14.0	37.1	157.7	0.0	0.5	0.0	39.8	−35.6	20.1	40.9	150.5	7.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
41/40	G50B_050_050$_d$	0.0	0.5	0.5	0.5	0.5	0.25	210	0.0	0.5	0.5	38.0	−14.6	−21.8	26.3	236.1	0.0	0.5	0.5	43.8	−17.1	−23.9	29.4	234.3	6.6	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
42/4	B00R_050_050$_d$	0.0	0.0	0.5	0.5	0.5	0.25	270	0.0	0.0	0.5	21.5	11.7	−23.6	26.4	296.4	0.0	0.0	0.5	22.3	17.0	−27.5	32.4	301.7	6.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
43/328	B50R_050_050$_d$	0.5	0.0	0.5	0.5	0.5	0.25	330	0.5	0.0	0.5	32.9	36.4	−4.2	36.6	353.3	0.5	0.0	0.5	35.0	42.0	−7.8	42.7	349.4	6.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
44/324	R00Y_050_050$_d$	0.5	0.0	0.0	0.5	0.5	0.25	390	0.5	0.0	0.0	32.5	31.9	20.6	38.0	32.8	0.5	0.0	0.0	34.1	34.6	23.9	42.1	34.6	4.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
45/0	NW_000$_d$	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
46/91	NW_013$_d$	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	28.0	−0.2	−0.4	0.5	238.7	0.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
47/182	NW_025$_d$	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	42.2	−0.5	−0.7	0.9	235.1	5.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
48/273	NW_038$_d$	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	55.0	−0.4	−0.6	0.7	234.3	8.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
49/364	NW_050$_d$	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	63.4	−0.4	−0.6	0.7	235.9	6.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
50/455	NW_063$_d$	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	72.2	−0.3	−0.4	0.5	236.5	5.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
51/546	NW_075$_d$	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	80.8	−0.2	−0.4	0.5	237.4	4.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
52/637	NW_088$_d$	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.7	−0.1	−0.1	0.2	234.3	4.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
53/728	NW_100$_d$	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: delta *E*'* = *3.8*

TUB-test chart QE04; hue code: H*$_d$=R25Y$_d$
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> *rgb*$_d$
output: transfer to *cmyk*$_d$

1−0031830−F0

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/33

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

n=j	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
0	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1	B00R_012_012d	0.0	0.0	0.125	0.125	0.125	0.062	270	0.0	0.0	0.125	18.6	2.9	−5.9	6.6	296.4	0.0	0.0	0.125	19.1	4.0	−6.7	7.8	300.9	1.4	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
2	B00R_025_025d	0.0	0.0	0.25	0.25	0.25	0.125	270	0.0	0.0	0.25	19.6	5.8	−11.8	13.2	296.4	0.0	0.0	0.25	22.1	9.0	−14.1	16.8	302.4	4.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
3	B00R_037_037d	0.0	0.0	0.375	0.375	0.375	0.187	270	0.0	0.0	0.375	20.5	8.8	−17.7	19.8	296.4	0.0	0.0	0.375	22.5	13.2	−21.1	24.9	301.9	5.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
4	B00R_050_050d	0.0	0.0	0.5	0.5	0.5	0.25	270	0.0	0.0	0.5	21.5	11.7	−23.6	26.4	296.4	0.0	0.0	0.5	22.3	17.0	−27.5	32.4	301.7	6.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
5	B00R_062_062d	0.0	0.0	0.625	0.625	0.625	0.312	270	0.0	0.0	0.625	22.4	14.6	−29.5	33.0	296.4	0.0	0.0	0.625	23.3	19.4	−33.5	38.7	300.1	6.2	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
6	B00R_075_075d	0.0	0.0	0.75	0.75	0.75	0.375	270	0.0	0.0	0.75	23.4	17.6	−35.5	39.6	296.4	0.0	0.0	0.75	23.9	21.6	−38.5	44.1	299.2	5.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
7	B00R_087_087d	0.0	0.0	0.875	0.875	0.875	0.437	270	0.0	0.0	0.875	24.3	20.5	−41.4	46.2	296.4	0.0	0.0	0.875	24.7	23.2	−43.9	49.7	297.9	3.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
8	B00R_100_100d	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
9	G00B_012_012d	0.0	0.125	0.0	0.125	0.125	0.062	150	0.0	0.125	0.0	21.9	−8.6	3.5	9.2	157.7	0.0	0.125	0.0	23.2	−8.1	3.5	8.9	156.6	1.3	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
10	G50B_012_012d	0.0	0.125	0.125	0.125	0.125	0.062	210	0.0	0.125	0.125	22.7	−3.6	−5.4	6.5	236.1	0.0	0.125	0.125	23.3	−4.5	−5.9	7.4	232.2	1.1	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
11	G75B_025_025d	0.0	0.125	0.25	0.25	0.25	0.125	240	0.0	0.125	0.25	23.9	−1.5	−11.2	11.3	262.3	0.0	0.125	0.25	28.6	−2.1	−13.2	13.4	260.9	5.1	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
12	G84B_037_037d	0.0	0.125	0.375	0.375	0.375	0.187	251	0.0	0.118	0.375	24.4	1.9	−17.2	17.3	276.3	0.0	0.125	0.375	29.1	2.3	−19.8	19.9	276.6	5.4	251	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276.3
13	G88B_050_050d	0.0	0.125	0.5	0.5	0.5	0.25	256	0.0	0.116	0.5	25.2	5.2	−23.1	23.7	282.8	0.0	0.125	0.5	28.1	6.7	−26.1	27.0	284.4	4.5	257	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8
14	G90B_062_062d	0.0	0.125	0.625	0.625	0.625	0.312	259	0.0	0.114	0.625	25.9	8.5	−29.1	30.4	286.2	0.0	0.125	0.625	28.6	9.8	−32.0	33.5	286.9	4.1	260	0.0	0.183	1.0	30.8	13.6	−46.7	48.6	286.2
15	G92B_075_075d	0.0	0.125	0.75	0.75	0.75	0.375	261	0.0	0.112	0.75	26.5	11.8	−35.1	37.1	288.6	0.0	0.125	0.75	27.9	14.1	−37.5	40.1	290.6	3.5	262	0.0	0.15	1.0	29.5	15.8	−46.9	49.4	288.6
16	G93B_087_087d	0.0	0.125	0.875	0.875	0.875	0.437	262	0.0	0.116	0.875	27.5	14.7	−41.0	43.6	289.7	0.0	0.125	0.875	28.7	16.1	−43.0	46.0	290.6	2.7	262	0.0	0.133	1.0	28.9	16.8	−46.9	49.9	289.7
17	G94B_100_100d	0.0	0.125	1.0	1.0	1.0	0.5	263	0.0	0.116	1.0	28.3	17.8	−47.0	50.3	290.7	0.0	0.125	1.0	28.6	17.4	−46.9	50.1	290.3	0.4	263	0.0	0.116	1.0	28.3	17.8	−47.0	50.3	290.7
18	G00B_025_025d	0.0	0.25	0.0	0.25	0.25	0.125	150	0.0	0.25	0.0	26.2	−17.2	7.0	18.5	157.7	0.0	0.25	0.0	32.0	−18.5	11.5	21.8	148.0	7.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
19	G25B_025_025d	0.0	0.25	0.125	0.25	0.25	0.125	180	0.0	0.25	0.125	26.9	−12.7	−3.0	13.1	193.5	0.0	0.25	0.125	33.0	−14.0	−2.7	14.2	191.2	6.1	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
20	G50B_025_025d	0.0	0.25	0.25	0.25	0.25	0.125	210	0.0	0.25	0.25	27.8	−7.3	−10.9	13.1	236.1	0.0	0.25	0.25	34.0	−9.3	−12.6	15.7	233.6	6.7	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
21	G65B_037_037d	0.0	0.25	0.375	0.375	0.375	0.187	229	0.0	0.256	0.375	29.6	−6.2	−16.6	17.7	249.4	0.0	0.25	0.375	36.1	−7.5	−19.3	20.7	248.7	7.1	228	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249.4
22	G75B_050_050d	0.0	0.25	0.5	0.5	0.5	0.25	240	0.0	0.25	0.5	30.2	−3.0	−22.5	22.7	262.3	0.0	0.25	0.5	35.5	−3.7	−25.3	25.6	261.5	6.0	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
23	G80B_062_062d	0.0	0.25	0.625	0.625	0.625	0.312	247	0.0	0.239	0.625	30.5	0.5	−28.4	28.4	271.0	0.0	0.25	0.625	34.8	0.4	−31.4	31.4	270.8	5.2	247	0.0	0.383	1.0	38.2	0.8	−45.4	45.4	271.0
24	G84B_075_075d	0.0	0.25	0.75	0.75	0.75	0.375	251	0.0	0.237	0.75	31.2	3.8	−34.4	34.6	276.3	0.0	0.25	0.75	33.6	5.2	−36.7	37.1	278.1	3.6	251	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276.3
25	G86B_087_087d	0.0	0.25	0.875	0.875	0.875	0.437	254	0.0	0.233	0.875	31.9	7.3	−40.2	40.9	280.3	0.0	0.25	0.875	33.8	7.9	−42.0	42.8	280.6	2.6	255	0.0	0.266	1.0	33.9	8.3	−46.0	46.7	280.3
26	G88B_100_100d	0.0	0.25	1.0	1.0	1.0	0.5	256	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8	0.0	0.25	1.0	33.3	9.4	−46.0	47.0	281.6	1.2	257	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8
27	G00B_037_037d	0.0	0.375	0.0	0.375	0.375	0.187	150	0.0	0.375	0.0	30.5	−25.8	10.5	27.8	157.7	0.0	0.375	0.0	36.3	−27.3	16.1	31.8	149.4	8.2	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
28	G15B_037_037d	0.0	0.375	0.125	0.375	0.375	0.187	169	0.0	0.375	0.118	31.2	−22.3	1.4	22.3	176.3	0.0	0.375	0.125	37.1	−23.5	2.8	23.6	173.0	6.1	168	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176.3
29	G34B_037_037d	0.0	0.375	0.25	0.375	0.375	0.187	191	0.0	0.375	0.256	32.1	−15.9	−9.8	18.7	211.7	0.0	0.375	0.25	38.2	−18.0	−10.2	20.7	209.4	6.4	191	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211.7
30	G50B_037_037d	0.0	0.375	0.375	0.375	0.375	0.187	210	0.0	0.375	0.375	32.9	−10.9	−16.4	19.7	236.1	0.0	0.375	0.375	39.6	−13.7	−18.8	23.3	234.0	7.6	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
31	G61B_050_050d	0.0	0.375	0.5	0.5	0.5	0.25	224	0.0	0.383	0.5	34.9	−10.2	−22.0	24.3	245.1	0.0	0.375	0.5	40.3	−11.8	−24.6	27.3	244.3	6.1	222	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1
32	G69B_062_062d	0.0	0.375	0.625	0.625	0.625	0.312	233	0.0	0.385	0.625	36.2	−8.3	−27.8	29.0	253.2	0.0	0.375	0.625	40.5	−9.2	−30.3	31.7	252.9	5.0	232	0.0	0.616	1.0	47.4	−13.4	−44.5	46.4	253.2
33	G75B_075_075d	0.0	0.375	0.75	0.75	0.75	0.375	240	0.0	0.375	0.75	36.5	−4.5	−33.7	34.0	262.3	0.0	0.375	0.75	39.5	−4.7	−35.9	36.3	262.5	3.7	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
34	G79B_087_087d	0.0	0.375	0.875	0.875	0.875	0.437	245	0.0	0.364	0.875	36.8	−0.9	−39.7	39.7	268.5	0.0	0.375	0.875	38.9	−1.2	−41.3	41.4	268.2	2.7	245	0.0	0.416	1.0	39.5	−1.1	−45.4	45.4	268.5
35	G81B_100_100d	0.0	0.375	1.0	1.0	1.0	0.5	248	0.0	0.366	1.0	37.6	1.8	−45.5	45.5	272.3	0.0	0.375	1.0	37.9	1.3	−45.4	45.4	271.7	0.6	248	0.0	0.366	1.0	37.6	1.8	−45.5	45.5	272.3
36	G00B_050_050d	0.0	0.5	0.0	0.5	0.5	0.25	150	0.0	0.5	0.0	34.8	−34.4	14.0	37.1	157.7	0.0	0.5	0.0	39.8	−35.6	20.1	40.9	150.5	7.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
37	G11B_050_050d	0.0	0.5	0.125	0.5	0.5	0.25	164	0.0	0.5	0.116	35.4	−31.3	5.5	31.8	170.0	0.0	0.5	0.125	40.7	−32.1	8.4	33.2	165.3	6.1	162	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0
38	G25B_050_050d	0.0	0.5	0.25	0.5	0.5	0.25	180	0.0	0.5	0.25	36.2	−25.5	−6.1	26.2	193.5	0.0	0.5	0.25	42.0	−26.8	−5.1	27.3	190.8	5.9	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
39	G38B_050_050d	0.0	0.5	0.375	0.5	0.5	0.25	196	0.0	0.5	0.383	37.2	−19.2	−15.8	24.9	219.6	0.0	0.5	0.375	43.1	−21.7	−16.3	27.2	216.9	6.3	197	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6
40	G50B_050_050d	0.0	0.5	0.5	0.5	0.5	0.25	210	0.0	0.5	0.5	38.0	−14.6	−21.8	26.3	236.1	0.0	0.5	0.5	43.8	−17.1	−23.9	29.4	234.3	6.6	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
41	G59B_062_062d	0.0	0.5	0.625	0.625	0.625	0.312	221	0.0	0.51	0.625	40.1	−14.0	−27.5	30.9	242.9	0.0	0.5	0.625	45.0	−15.9	−29.6	33.7	241.6	5.6	219	0.0	0.816	1.0	53.6	−22.5	−44.1	49.5	242.9
42	G65B_075_075d	0.0	0.5	0.75	0.75	0.75	0.375	229	0.0	0.512	0.75	41.6	−12.4	−33.2	35.5	249.4	0.0	0.5	0.75	44.7	−12.6	−34.9	37.2	250.1	3.5	228	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249.4
43	G70B_087_087d	0.0	0.5	0.875	0.875	0.875	0.437	235	0.0	0.51	0.875	42.5	−9.8	−39.1	40.4	255.8	0.0	0.5	0.875	45.2	−10.5	−40.5	41.9	255.4	3.0	234	0.0	0.583	1.0	46.1	−11.3	−44.7	46.1	255.8
44	G75B_100_100d	0.0	0.5	1.0	1.0	1.0	0.5	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3	0.0	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
45	G00B_062_062d	0.0	0.625	0.0	0.625	0.625	0.312	150	0.0	0.625	0.0	39.1	−43.0	17.5	46.4	157.7	0.0	0.625	0.0	43.4	−43.9	23.3	49.7	152.0	7.3	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
46	G09B_062_062d	0.0	0.625	0.125	0.625	0.625	0.312	161	0.0	0.625	0.114	39.7	−40.3	9.2	41.3	167.1	0.0	0.625	0.125	44.1	−40.4	12.6	42.3	162.5	5.6	159	0.0	1.0	0.183	52.9	−64.5	14.7	66.1	167.1
47	G19B_062_062d	0.0	0.625	0.25	0.625	0.625	0.312	173	0.0	0.625	0.239	40.4	−35.4	−1.1	35.4	181.9	0.0	0.625	0.25	45.2	−35.7	−0.2	35.7	180.3	4.9	172	0.0	1.0	0.383	54.1	−56.6	−1.8	56.6	181.9
48	G30B_062_062d	0.0	0.625	0.375	0.625	0.625	0.312	187	0.0	0.625	0.385	41.4	−28.4	−13.3	31.4	205.1	0.0	0.625	0.375	46.4	−30.2	−12.4	32.7	202.3	5.3	187	0.0	1.0	0.616	55.7	−45.5	−21.3	50.3	205.1
49	G40B_062_062d	0.0	0.625	0.5	0.625	0.625	0.312	199	0.0	0.625	0.51	42.3	−22.9	−21.4	31.4	223.1	0.0	0.625	0.5	47.2	−25.1	−21.8	33.3	220.9	5.3	200	0.0	1.0	0.816	57.1	−36.6	−34.3	50.2	223.1
50	G50B_062_062d	0.0	0.625	0.625	0.625	0.625	0.312	210	0.0	0.625	0.625	43.1	−18.3	−27.3	32.9	236.1	0.0	0.625	0.625	47.9	−20.5	−28.9	35.4	234.6	5.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
51	G57B_075_075d	0.0	0.625	0.75	0.75	0.75	0.375	219	0.0	0.637	0.75	45.3	−17.9	−33.0	37.5	241.4	0.0	0.625	0.75	49.2	−19.2	−34.2	39.2	240.6	4.2	217	0.0	0.85	1.0	54.5	−23.9	−44.0	50.1	241.4
52	G63B_087_087d	0.0	0.625	0.875	0.875	0.875	0.437	226	0.0	0.641	0.875	47.0	−16.6	−38.7	42.1	246.7	0.0	0.625	0.875	49.1	−16.7	−40.0	43.3	247.2	2.4	224	0.0	0.733	1.0	51.2	−18.9	−44.2	48.1	246.7
53	G68B_100_100d	0.0	0.625	1.0	1.0	1.0	0.5	232	0.0	0.633	1.0	48.0	−14.3	−44.4	46.6	252.1	0.0	0.625	1.0	47.7	−13.9	−44.4	46.5	252.5	0.4	231	0.0	0.633	1.0	48.0	−14.3	−44.4	46.6	252.1
54	G00B_075_075d	0.0	0.75	0.0	0.75	0.75	0.375	150	0.0	0.75	0.0	43.3	−51.6	21.0	55.7	157.7	0.0	0.75	0.0	46.9	−51.5	25.6	57.6	153.5	5.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
55	G07B_075_075d	0.0	0.75	0.125	0.75	0.75	0.375	159	0.0	0.75	0.112	43.9	−49.2	13.0	50.9	165.1	0.0	0.75	0.125	47.2	−48.8	16.3	51.5	161.5	4.7	157	0.0	1.0	0.15	52.7	−65.6	17.3	67.9	165.1
56	G15B_075_075d	0.0	0.75	0.25	0.75	0.75	0.375	169	0.0	0.75	0.237	44.7	−44.6	2.8	44.7	176.3	0.0	0.75	0.25	48.1	−44.4	4.9	44.7	173.6	4.0	168	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176.3
57	G25B_075_075d	0.0	0.75	0.375	0.75	0.75	0.375	180	0.0	0.75	0.375	45.5	−38.3	−9.2	39.4	193.5	0.0	0.75	0.375	49.5	−38.6	−8.2	39.5	192.0	4.1	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
58	G34B_075_075d	0.0	0.75	0.5	0.75	0.75	0.375	191	0.0	0.75	0.512	46.6	−31.8	−19.7	37.4	211.7	0.0	0.75	0.5	50.4	−33.0	−18.8	38.0	209.6	4.1	191	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211.7
59	G42B_075_075d	0.0	0.75	0.625	0.75	0.75	0.375	201	0.0	0.75	0.637	47.4	−26.5	−27.0	37.8	225.5	0.0	0.75	0.625	51.0	−28.0	−26.9	38.9	223.7	3.9	202	0.0	1.0	0.85	57.4	−35.3	−36.0	50.4	225.5
60	G50B_075_075d	0.0	0.75	0.75	0.75	0.75	0.375	210	0.0	0.75	0.75	48.1	−21.9	−32.8	39.4	236.1	0.0	0.75	0.75	51.8	−23.5	−33.7	41.1	235.1	4.0	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
61	G56B_087_087d	0.0	0.75	0.875	0.875	0.875	0.437	218	0.0	0.758	0.875	50.3	−21.5	−38.4	44.1	240.7	0.0	0.75	0.875	52.9	−22.3	−39.5	45.4	240.4	2.9	217	0.0	0.866	1.0	55.0	−24.6	−43.9	50.4	240.7
62	G61B_100_100d	0.0	0.75	1.0	1.0	1.0	0.5	224	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1	0.0	0.75	1.0	51.7	−19.7	−44.1	48.3	245.8	0.8	222	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1
63	G00B_087_087d	0.0	0.875	0.0	0.875	0.875	0.437	150	0.0	0.875	0.0	47.6	−60.2	24.6	65.0	157.7	0.0	0.875	0.0	50.1	−60.9	27.7	66.9	155.4	4.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
64	G06B_087_087d	0.0	0.875	0.125	0.875	0.875	0.437	158	0.0	0.875	0.116	48.2	−57.8	16.3	60.1	164.2	0.0	0.875	0.125	50.6	−57.7	17.6	60.3	162.9	2.7	157	0.0	1.0	0.133	52.6	−66.1	18.6	68.7	164.2
65	G13B_087_087d	0.0	0.875	0.25	0.875	0.875	0.437	166	0.0	0.875	0.233	48.9	−53.7	7.2	54.2	172.3	0.0	0.875	0.25	51.2	−54.4	8.4	55.0	171.2	2.6	164	0.0	1.0	0.266	53.4	−61.4	8.2	61.9	172.3
66	G20B_087_087d	0.0	0.875	0.375	0.875	0.875	0.437	175	0.0	0.875	0.364	49.7	−48.3	−4.4	48.5	185.2	0.0	0.875	0.375	52.2	−48.7	−4.0	48.9	184.7	2.5	174	0.0	1.0	0.416	54.3	−55.2	−5.0	55.5	185.2
67	G29B_087_087d	0.0	0.875	0.5	0.875	0.875	0.437	185	0.0	0.875	0.51	50.7	−41.4	−16.5	44.6	201.8	0.0	0.875	0.5	53.3	−42.2	−15.8	45.1	200.5	2.8	185	0.0	1.0	0.583	55.5	−47.3	−18.9	50.9	201.8
68	G36B_087_087d	0.0	0.875	0.625	0.875	0.875	0.437	194	0.0	0.875	0.641	51.7	−34.9	−26.0	43.5	216.7	0.0	0.875	0.625	54.2	−36.5	−25.0	44.3	214.3	3.1	195	0.0	1.0	0.733	56.6	−39.9	−29.8	49.8	216.7
69	G43B_087_087d	0.0	0.875	0.75	0.875	0.875	0.437	202	0.0	0.875	0.758	52.5	−30.3	−32.2	44.2	226.7	0.0	0.875	0.75	55.1	−31.6	−32.2	45.1	225.5	2.8	202	0.0	1.0	0.866	57.5	−34.6	−36.8	50.6	226.7
70	G50B_087_087d	0.0	0.875	0.875	0.875	0.875	0.437	210	0.0	0.875	0.875	53.2	−25.6	−38.2	46.0	236.1	0.0	0.875	0.875	55.8	−26.9	−38.9	47.3	235.3	2.9	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
71	G55B_100_100d	0.0	0.875	1.0	1.0	1.0	0.5	217	0.0	0.883	1.0	55.4	−25.2	−43.9	50.7	240.0	0.0	0.875	1.0	55.2	−25.0	−43.9	50.5	240.3	0.3	216	0.0	0.883	1.0	55.4	−25.2	−43.9	50.7	240.0
72	G00B_100_100d	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
73	G05B_100_100d	0.0	1.0	0.125	1.0	1.0	0.5	157	0.0	1.0	0.116	52.5	−66.6	19.9	69.5	163.3	0.0	1.0	0.125	52.5	−66.4	19.3	69.1	163.7	0.5	156	0.0	1.0	0.116	52.5	−66.6	19.9	69.5	163.3
74	G11B_100_100d	0.0	1.0	0.25	1.0	1.0	0.5	164	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0	0.0	1.0	0.25	53.2	−61.9	9.8	62.7	170.9	1.3	162	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0
75	G18B_100_100d	0.0	1.0	0.375	1.0	1.0	0.5	172	0.0	1.0	0.366	54.0	−57.3	−0.4	57.3	180.4	0.0	1.0	0.375	54.1	−56.9	−1.0	56.9	181.0	0.7	171	0.0	1.0	0.366	54.0	−57.3	−0.4	57.3	180.4
76	G25B_100_100d	0.0	1.0	0.5	1.0	1.0	0.5	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5	0.0	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
77	G31B_100_100d	0.0	1.0	0.625	1.0	1.0	0.5	188	0.0	1.0	0.633	55.8	−44.7	−22.5	50.1	206.7	0.0	1.0	0.625	55.8	−45.1	−21.9	50.1	205.9	0.7	188	0.0	1.0	0.633	55.8	−44.7	−22.5	50.1	206.7
78	G38B_100_100d	0.0	1.0	0.75	1.0	1.0	0.5	196	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6	0.0	1.0	0.75	56.7	−38.9	−30.9	49.7	218.4	1.0	197	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6
79	G44B_100_100d	0.0	1.0	0.875	1.0	1.0	0.5	203	0.0	1.0	0.883	57.6	−34.0	−37.7	50.8	227.9	0.0	1.0	0.875	57.5	−34.3	−37.2	50.6	227.3	0.5	203	0.0	1.0	0.883	57.6	−34.0	−37.7	50.8	227.9
80	G50B_100_100d	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1

Mean color difference of this page: delta E*' = 3.7

1-0031930-F0 QE040-7N, Page 20/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

QE0400L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 21/33

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
81	R00Y_012_012d	0.125	0.0	0.0	0.125	0.125	0.062	390	0.125	0.0	0.0	21.4	7.9	5.1	9.5	32.8	0.125	0.0	0.0	22.6	5.8	6.1	8.4	46.2	2.6	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
82	B50R_012_012d	0.125	0.0	0.125	0.125	0.125	0.062	330	0.125	0.0	0.125	21.5	9.1	-1.0	9.1	353.3	0.125	0.0	0.125	22.0	8.7	-2.1	9.0	346.0	1.2	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
83	B25R_025_025d	0.125	0.0	0.25	0.25	0.25	0.125	300	0.125	0.0	0.25	22.7	13.4	-6.5	14.9	333.9	0.125	0.0	0.25	26.4	15.2	-8.9	17.6	329.7	4.7	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
84	B15R_037_037d	0.125	0.0	0.375	0.375	0.375	0.187	289	0.118	0.0	0.375	23.3	15.9	-13.2	20.7	320.2	0.125	0.0	0.375	27.5	19.5	-15.7	25.0	321.2	6.0	288	0.316	0.0	1.0	32.7	42.4	-35.3	55.3	320.2
85	B11R_050_050d	0.125	0.0	0.5	0.5	0.5	0.25	284	0.116	0.0	0.5	24.4	17.8	-19.8	26.6	311.9	0.125	0.0	0.5	26.6	24.0	-22.4	32.9	317.0	7.0	282	0.233	0.0	1.0	31.2	35.6	-39.6	53.3	311.9
86	B09R_062_062d	0.125	0.0	0.625	0.625	0.625	0.312	281	0.114	0.0	0.625	25.6	21.2	-25.6	33.2	309.5	0.125	0.0	0.625	27.1	26.6	-28.7	39.1	312.7	6.4	279	0.183	0.0	1.0	30.3	33.9	-41.0	53.2	309.5
87	B07R_075_075d	0.125	0.0	0.75	0.75	0.75	0.375	279	0.112	0.0	0.75	26.7	24.5	-31.4	39.9	307.9	0.125	0.0	0.75	27.8	28.8	-33.9	44.5	310.3	5.0	278	0.15	0.0	1.0	29.7	32.7	-41.9	53.2	307.9
88	B06R_087_087d	0.125	0.0	0.875	0.875	0.875	0.437	278	0.116	0.0	0.875	28.0	28.1	-37.0	46.5	307.1	0.125	0.0	0.875	28.8	31.4	-38.8	49.9	308.9	3.8	277	0.133	0.0	1.0	29.4	32.1	-42.3	53.1	307.1
89	B05R_100_100d	0.125	0.0	1.0	1.0	1.0	0.5	277	0.116	0.0	1.0	29.0	31.2	-42.9	53.1	306.0	0.125	0.0	1.0	29.3	31.8	-42.6	53.1	306.7	0.6	276	0.116	0.0	1.0	29.0	31.2	-42.9	53.1	306.0
90	Y00G_012_012d	0.125	0.125	0.0	0.125	0.125	0.062	90	0.125	0.125	0.0	26.5	-1.4	11.8	11.9	97.1	0.125	0.125	0.0	27.7	-3.1	9.7	10.2	108.1	2.9	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
91	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	28.0	-0.2	-0.4	0.5	238.7	0.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
92	B00R_025_012d	0.125	0.125	0.25	0.25	0.125	0.187	270	0.124	0.124	0.25	28.3	2.9	-5.9	6.6	296.4	0.125	0.125	0.25	31.9	3.7	-8.7	9.5	293.2	4.6	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
93	B00R_037_025d	0.125	0.125	0.375	0.375	0.25	0.25	270	0.124	0.124	0.375	29.3	5.8	-11.8	13.2	296.4	0.125	0.125	0.375	33.8	7.7	-14.6	16.5	297.7	5.5	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
94	B00R_050_037d	0.125	0.125	0.5	0.5	0.375	0.312	270	0.124	0.124	0.5	30.2	8.8	-17.7	19.8	296.4	0.125	0.125	0.5	33.1	12.1	-20.7	24.0	300.3	5.3	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
95	B00R_062_050d	0.125	0.125	0.625	0.625	0.5	0.375	270	0.125	0.125	0.625	31.2	11.7	-23.6	26.4	296.4	0.125	0.125	0.625	33.6	15.2	-26.4	30.5	300.0	5.0	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
96	B00R_075_062d	0.125	0.125	0.75	0.75	0.625	0.437	270	0.125	0.125	0.75	32.1	14.6	-29.5	33.0	296.4	0.125	0.125	0.75	33.2	18.6	-32.3	37.3	300.0	4.9	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
97	B00R_087_075d	0.125	0.125	0.875	0.875	0.75	0.5	270	0.125	0.125	0.875	33.1	17.6	-35.5	39.6	296.4	0.125	0.125	0.875	33.9	22.1	-37.4	43.4	300.6	4.9	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
98	B00R_100_087d	0.125	0.125	1.0	1.0	0.875	0.562	270	0.125	0.125	1.0	34.1	20.5	-41.4	46.2	296.4	0.125	0.125	1.0	33.6	23.8	-41.7	48.0	299.7	3.3	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
99	Y50G_025_025d	0.125	0.25	0.0	0.25	0.25	0.125	120	0.125	0.25	0.0	31.4	-7.8	16.5	18.2	115.3	0.125	0.25	0.0	36.5	-10.7	18.4	21.4	120.2	6.1	119	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
100	G00B_025_012d	0.125	0.25	0.125	0.25	0.125	0.187	150	0.124	0.25	0.124	31.7	-8.6	3.5	9.2	157.7	0.125	0.25	0.125	35.6	-9.7	5.4	11.1	150.9	4.5	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
101	G50B_025_012d	0.125	0.25	0.25	0.25	0.125	0.187	210	0.124	0.25	0.25	32.5	-3.6	-5.4	6.5	236.1	0.125	0.25	0.25	36.7	-5.3	-7.4	9.1	234.0	4.9	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
102	G75B_037_025d	0.125	0.25	0.375	0.375	0.25	0.25	240	0.124	0.25	0.375	33.6	-1.5	-11.2	11.3	262.3	0.125	0.25	0.375	39.3	-2.0	-12.9	13.0	260.8	5.9	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
103	G84B_050_037d	0.125	0.25	0.5	0.5	0.375	0.312	251	0.124	0.243	0.5	34.2	1.9	-17.2	17.3	276.3	0.125	0.25	0.5	39.5	1.7	-18.7	18.8	275.2	5.5	251	0.0	0.316	1.0	35.7	5.1	-45.8	46.1	276.3
104	G88B_062_050d	0.125	0.25	0.625	0.625	0.5	0.375	256	0.125	0.241	0.625	34.9	5.2	-23.1	23.7	282.8	0.125	0.25	0.625	39.5	5.3	-24.6	25.2	282.3	4.8	257	0.0	0.233	1.0	32.7	10.5	-46.2	47.4	282.8
105	G90B_075_062d	0.125	0.25	0.75	0.75	0.625	0.437	259	0.125	0.239	0.75	35.6	8.5	-29.1	30.4	286.2	0.125	0.25	0.75	38.4	9.8	-30.8	32.3	287.7	3.5	260	0.0	0.183	1.0	30.8	13.6	-46.7	48.6	286.2
106	G92B_087_075d	0.125	0.25	0.875	0.875	0.75	0.5	261	0.125	0.237	0.875	36.3	11.8	-35.1	37.1	288.6	0.125	0.25	0.875	38.5	13.3	-36.3	38.7	290.1	2.9	262	0.0	0.15	1.0	29.5	15.8	-46.9	49.4	288.6
107	G93B_100_087d	0.125	0.25	1.0	1.0	0.875	0.562	262	0.125	0.241	1.0	37.2	14.7	-41.0	43.6	289.7	0.125	0.25	1.0	38.1	15.5	-40.4	43.3	291.1	1.4	262	0.0	0.133	1.0	28.9	16.8	-46.9	49.9	289.7
108	Y68G_037_037d	0.125	0.375	0.0	0.375	0.375	0.187	131	0.118	0.375	0.0	35.5	-15.8	20.1	25.6	128.2	0.125	0.375	0.0	40.7	-19.0	23.7	30.4	128.6	7.1	131	0.316	1.0	0.0	65.1	-42.3	53.6	68.2	128.2
109	G00B_037_025d	0.125	0.375	0.125	0.375	0.25	0.25	150	0.124	0.375	0.124	35.9	-17.2	7.0	18.5	157.7	0.125	0.375	0.125	40.8	-17.0	11.0	20.3	147.1	6.3	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
110	G25B_037_025d	0.125	0.375	0.25	0.375	0.25	0.25	180	0.124	0.375	0.25	36.7	-12.7	-3.0	13.1	193.5	0.125	0.375	0.25	42.3	-12.9	-2.3	13.1	190.4	5.6	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
111	G50B_037_025d	0.125	0.375	0.375	0.375	0.25	0.25	210	0.124	0.375	0.375	37.5	-7.3	-10.9	13.1	236.1	0.125	0.375	0.375	43.5	-8.9	-12.3	15.2	234.2	6.3	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
112	G65B_050_037d	0.125	0.375	0.5	0.5	0.375	0.312	229	0.124	0.381	0.5	39.4	-6.2	-16.6	17.7	249.4	0.125	0.375	0.5	44.7	-6.8	-17.9	19.2	249.0	5.5	228	0.0	0.683	1.0	49.6	-16.6	-44.3	47.4	249.4
113	G75B_062_050d	0.125	0.375	0.625	0.625	0.5	0.375	240	0.125	0.375	0.625	39.9	-3.0	-22.5	22.7	262.3	0.125	0.375	0.625	45.3	-3.6	-23.6	23.9	261.3	5.4	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
114	G80B_075_062d	0.125	0.375	0.75	0.75	0.625	0.437	247	0.125	0.364	0.75	40.2	0.5	-28.4	28.4	271.0	0.125	0.375	0.75	43.6	1.1	-29.7	29.7	272.2	3.6	247	0.0	0.383	1.0	38.2	0.8	-45.4	45.4	271.0
115	G84B_087_075d	0.125	0.375	0.875	0.875	0.75	0.5	251	0.125	0.362	0.875	40.9	3.8	-34.4	34.6	276.3	0.125	0.375	0.875	44.6	4.0	-34.9	35.1	276.6	3.6	251	0.0	0.316	1.0	35.7	5.1	-45.8	46.1	276.3
116	G86B_100_087d	0.125	0.375	1.0	1.0	0.875	0.562	254	0.125	0.358	1.0	41.6	7.3	-40.2	40.9	280.3	0.125	0.375	1.0	42.3	8.4	-39.6	40.5	281.9	1.4	255	0.0	0.266	1.0	33.9	8.3	-46.0	46.7	280.3
117	Y76G_050_050d	0.125	0.5	0.0	0.5	0.5	0.25	136	0.116	0.5	0.0	39.0	-24.4	23.3	33.8	136.2	0.125	0.5	0.0	44.2	-26.4	27.6	38.2	133.7	7.0	137	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136.2
118	G00B_050_037d	0.125	0.5	0.125	0.5	0.375	0.312	150	0.124	0.5	0.124	40.2	-25.8	10.5	27.8	157.7	0.125	0.5	0.125	44.8	-24.5	15.9	29.2	147.0	7.1	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
119	G15B_050_037d	0.125	0.5	0.25	0.5	0.375	0.312	169	0.124	0.5	0.243	40.9	-22.3	1.4	22.3	176.3	0.125	0.5	0.25	45.9	-20.4	2.8	20.6	171.9	5.5	168	0.0	1.0	0.316	53.7	-59.5	3.7	59.6	176.3
120	G34B_050_037d	0.125	0.5	0.375	0.5	0.375	0.312	191	0.124	0.5	0.381	41.8	-15.9	-9.8	18.7	211.7	0.125	0.5	0.375	47.7	-16.0	-9.1	18.4	209.5	5.8	191	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9	211.7
121	G50B_050_037d	0.125	0.5	0.5	0.5	0.375	0.312	210	0.124	0.5	0.5	42.6	-10.9	-16.4	19.7	236.1	0.125	0.5	0.5	47.9	-12.3	-17.4	21.3	234.7	5.5	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
122	G61B_062_050d	0.125	0.5	0.625	0.625	0.5	0.375	224	0.125	0.508	0.625	44.6	-10.2	-22.0	24.3	245.1	0.125	0.5	0.625	49.8	-10.6	-22.8	25.2	244.9	5.2	222	0.0	0.766	1.0	52.2	-20.4	-44.1	48.6	245.1
123	G69B_075_062d	0.125	0.5	0.75	0.75	0.625	0.437	233	0.125	0.51	0.75	46.0	-8.3	-27.8	29.0	253.2	0.125	0.5	0.75	49.1	-7.9	-28.6	29.7	254.4	3.2	232	0.0	0.616	1.0	47.4	-13.4	-44.5	46.4	253.2
124	G75B_087_075d	0.125	0.5	0.875	0.875	0.75	0.5	240	0.125	0.5	0.875	46.2	-4.5	-33.7	34.0	262.3	0.125	0.5	0.875	49.6	-4.4	-34.1	34.4	262.5	3.4	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
125	G79B_100_087d	0.125	0.5	1.0	1.0	0.875	0.562	245	0.125	0.489	1.0	46.5	-0.9	-39.7	39.7	268.5	0.125	0.5	1.0	47.2	0.5	-38.8	38.8	270.8	1.9	245	0.0	0.416	1.0	39.5	-1.1	-45.4	45.4	268.5
126	Y81G_062_062d	0.125	0.625	0.0	0.625	0.625	0.312	139	0.114	0.625	0.0	43.5	-32.3	27.0	42.1	140.1	0.125	0.625	0.0	48.1	-34.1	31.3	46.3	137.3	6.5	140	0.183	1.0	0.0	59.0	-51.8	43.2	67.4	140.1
127	G00B_062_050d	0.125	0.625	0.125	0.625	0.5	0.375	150	0.125	0.625	0.125	44.5	-34.4	14.0	37.1	157.7	0.125	0.625	0.125	48.8	-31.7	20.0	37.5	147.6	7.8	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
128	G11B_062_050d	0.125	0.625	0.25	0.625	0.5	0.375	164	0.125	0.625	0.241	45.1	-31.3	5.5	31.8	170.0	0.125	0.625	0.25	49.9	-28.4	8.0	29.5	164.2	6.1	162	0.0	1.0	0.233	53.2	-62.6	11.0	63.6	170.0
129	G25B_062_050d	0.125	0.625	0.375	0.625	0.5	0.375	180	0.125	0.625	0.375	46.0	-25.5	-6.1	26.2	193.5	0.125	0.625	0.375	51.1	-23.9	-4.0	24.3	189.6	5.7	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
130	G38B_062_050d	0.125	0.625	0.5	0.625	0.5	0.375	196	0.125	0.625	0.508	47.0	-19.2	-15.8	24.9	219.6	0.125	0.625	0.5	52.0	-19.4	-14.8	24.4	217.4	5.1	197	0.0	1.0	0.766	56.8	-38.4	-31.7	49.8	219.6
131	G50B_062_050d	0.125	0.625	0.625	0.625	0.5	0.375	210	0.125	0.625	0.625	47.7	-14.6	-21.8	26.3	236.1	0.125	0.625	0.625	52.7	-15.6	-22.4	27.3	235.1	5.1	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
132	G59B_075_062d	0.125	0.625	0.75	0.75	0.625	0.437	221	0.125	0.635	0.75	49.8	-14.0	-27.5	30.9	242.9	0.125	0.625	0.75	54.2	-14.2	-27.8	31.2	242.9	4.3	219	0.0	0.816	1.0	53.6	-22.5	-44.1	49.5	242.9
133	G65B_087_075d	0.125	0.625	0.875	0.875	0.75	0.5	229	0.125	0.637	0.875	51.3	-12.4	-33.2	35.5	249.4	0.125	0.625	0.875	54.6	-11.0	-33.1	34.9	251.5	3.5	228	0.0	0.683	1.0	49.6	-16.6	-44.3	47.4	249.4
134	G70B_100_087d	0.125	0.625	1.0	1.0	0.875	0.562	235	0.125	0.635	1.0	52.2	-9.8	-39.1	40.4	255.8	0.125	0.625	1.0	53.1	-8.0	-37.9	38.8	257.9	2.3	234	0.0	0.583	1.0	46.1	-11.3	-44.7	46.1	255.8
135	Y85G_075_075d	0.125	0.75	0.0	0.75	0.75	0.375	141	0.112	0.75	0.0	48.0	-40.2	30.6	50.5	142.7	0.125	0.75	0.0	51.5	-41.2	34.0	53.4	140.4	5.0	142	0.15	1.0	0.0	58.1	-53.6	40.8	67.4	142.7
136	G00B_075_062d	0.125	0.75	0.125	0.75	0.625	0.437	150	0.125	0.75	0.125	48.8	-43.0	17.5	46.4	157.7	0.125	0.75	0.125	52.3	-38.6	23.5	45.2	148.6	8.1	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
137	G09B_075_062d	0.125	0.75	0.25	0.75	0.625	0.437	161	0.125	0.75	0.239	49.4	-40.3	9.2	41.3	167.1	0.125	0.75	0.25	53.2	-35.7	13.1	38.0	159.8	7.1	159	0.0	1.0	0.183	52.9	-64.5	14.7	66.1	167.1
138	G19B_075_062d	0.125	0.75	0.375	0.75	0.625	0.437	173	0.125	0.75	0.364	50.2	-35.4	-1.1	35.4	181.9	0.125	0.75	0.375	54.5	-31.7	1.0	31.8	178.1	6.0	172	0.0	1.0	0.383	54.1	-56.6	-1.8	56.6	181.9
139	G30B_075_062d	0.125	0.75	0.5	0.75	0.625	0.437	187	0.125	0.75	0.51	51.2	-28.4	-13.3	31.4	205.1	0.125	0.75	0.5	55.6	-26.4	-11.5	28.8	203.5	5.1	187	0.0	1.0	0.616	55.7	-45.5	-21.3	50.3	205.1
140	G40B_075_062d	0.125	0.75	0.625	0.75	0.625	0.437	199	0.125	0.75	0.635	52.1	-22.9	-21.4	31.4	223.1	0.125	0.75	0.625	56.1	-22.5	-19.9	30.1	221.4	4.3	200	0.0	1.0	0.816	57.1	-36.6	-34.3	50.2	223.1
141	G50B_075_062d	0.125	0.75	0.75	0.75	0.625	0.437	210	0.125	0.75	0.75	52.8	-18.3	-27.3	32.9	236.1	0.125	0.75	0.75	57.0	-18.6	-27.3	33.0	235.7	4.2	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
142	G57B_087_075d	0.125	0.75	0.875	0.875	0.75	0.5	219	0.125	0.762	0.875	55.0	-17.9	-33.0	37.5	241.4	0.125	0.75	0.875	58.7	-17.2	-32.7	37.0	242.2	3.7	217	0.0	0.85	1.0	54.5	-23.9	-44.0	50.1	241.4
143	G63B_100_087d	0.125	0.75	1.0	1.0	0.875	0.562	226	0.125	0.766	1.0	56.7	-16.6	-38.7	42.1	246.7	0.125	0.75	1.0	57.3	-13.9	-37.3	39.8	249.5	3.0	224	0.0	0.733	1.0	51.2	-18.9	-44.2	48.1	246.7
144	Y86G_087_087d	0.125	0.875	0.0	0.875	0.875	0.437	142	0.116	0.875	0.0	52.6	-47.7	34.6	58.9	144.0	0.125	0.875	0.0	55.4	-48.7	37.2	61.3	142.6	3.9	142	0.133	1.0	0.0	57.6	-54.5	39.5	67.3	144.0
145	G00B_087_075d	0.125	0.875	0.125	0.875	0.75	0.5	150	0.125	0.875	0.125	53.1	-51.6	21.0	55.7	157.7	0.125	0.875	0.125	56.3	-46.0	27.2	53.5	149.4	8.8	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
146	G07B_087_075d	0.125	0.875	0.25	0.875	0.75	0.5	159	0.125	0.875	0.237	53.6	-49.2	13.0	50.9	165.1	0.125	0.875	0.25	56.9	-43.7	17.5	47.1	158.0	7.8	157	0.0	1.0	0.15	52.7	-65.6	17.3	67.9	165.1
147	G15B_087_075d	0.125	0.875	0.375	0.875	0.75	0.5	169	0.125	0.875	0.362	54.4	-44.6	2.8	44.7	176.3	0.125	0.875	0.375	58.0	-39.5	5.4	39.9	172.2	6.7	168	0.0	1.0	0.316	53.7	-59.5	3.7	59.6	176.3
148	G25B_087_075d	0.125	0.875	0.5	0.875	0.75	0.5	180	0.125	0.875	0.5	55.2	-38.3	-9.2	39.4	193.5	0.125	0.875	0.5	58.7	-35.0	-6.9	35.7	191.1	5.3	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
149	G34B_087_075d	0.125	0.875	0.625	0.875	0.75	0.5	191	0.125	0.875	0.637	56.3	-31.8	-19.7	37.4	211.7	0.125	0.875	0.625	60.0	-29.9	-17.0	34.4	209.7	4.9	191	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9	211.7
150	G42B_087_075d	0.125	0.875	0.75	0.875	0.75	0.5	201	0.125	0.875	0.762	57.2	-26.5	-27.0	37.8	225.5	0.125	0.875	0.75	60.8	-25.5	-25.6	36.1	225.1	3.9	202	0.0	1.0	0.85	57.4	-35.3	-36.0	50.4	225.5
151	G50B_087_075d	0.125	0.875	0.875	0.875	0.75	0.5	210	0.125	0.875	0.875	57.9	-21.9	-32.8	39.4	236.1	0.125	0.875	0.875	61.6	-21.6	-32.3	38.9	236.2	3.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
152	G56B_100_087d	0.125	0.875	1.0	1.0	0.875	0.562	218	0.125	0.883	1.0	60.0	-21.5	-38.4	44.1	240.7	0.125	0.875	1.0	61.1	-19.5	-37.2	42.1	242.3	2.5	217	0.0	0.866	1.0	55.0	-24.6	-43.9	50.4	240.7
153	Y88G_100_100d	0.125	1.0	0.0	1.0	1.0	0.5	143	0.116	1.0	0.0	57.0	-55.9	38.3	67.8	145.5	0.125	1.0	0.0	57.4	-54.9	38.9	67.3	144.6	1.1	143	0.116	1.0	0.0	57.0	-55.9	38.3	67.8	145.5
154	G00B_100_087d	0.125	1.0	0.125	1.0	0.875	0.562	150	0.125	1.0	0.125	57.3	-60.2	24.6	65.0	157.7	0.125	1.0	0.125	58.3	-52.3	29.4	60.0	150.6	9.2	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
155	G06B_100_087d	0.125	1.0	0.25	1.0	0.875	0.562	158	0.125	1.0	0.241	57.9	-57.8	16.3	60.1	164.2	0.125	1.0	0.25	58.7	-49.8	19.3	53.4	158.8	8.5	157	0.0	1.0	0.133	52.6	-66.1	18.6	68.7	164.2
156	G13B_100_087d	0.125	1.0	0.375	1.0	0.875	0.562	166	0.125	1.0	0.358	58.6	-53.7	7.2	54.2	172.3	0.125	1.0	0.375	59.7	-46.5	9.6	47.4	168.3	7.7	164	0.0	1.0	0.266	53.4	-61.4	8.2	61.9	172.3
157	G20B_100_087d	0.125	1.0	0.5	1.0	0.875	0.562	175	0.125	1.0	0.489	59.4	-48.3	-4.4	48.5	185.2	0.125	1.0	0.5	60.4	-42.2	-1.8	42.3	182.5	6.6	174	0.0	1.0	0.416	54.3	-55.2	-5.0	55.5	185.2
158	G29B_100_087d	0.125	1.0	0.625	1.0	0.875	0.562	185	0.125	1.0	0.635	60.5	-41.4	-16.5	44.6	201.8	0.125	1.0	0.625	61.4	-37.1	-13.0	39.3	199.3	5.6	185	0.0	1.0	0.583	55.5	-47.3	-18.9	50.9	201.8
159	G36B_100_087d	0.125	1.0	0.75	1.0	0.875	0.562	194	0.125	1.0	0.766	61.4	-34.9	-26.0	43.5	216.7	0.125	1.0	0.75	62.5	-32.0	-22.8	39.3	215.4	4.4	195	0.0	1.0	0.733	56.6	-39.9	-29.8	49.8	216.7
160	G43B_100_087d	0.125	1.0	0.875	1.0	0.875	0.562	202	0.125	1.0	0.883	62.2	-30.3	-32.2	44.2	226.7	0.125	1.0	0.875	63.4	-27.9	-29.7	40.8	226.7	3.6	202	0.0	1.0	0.866	57.5	-34.6	-36.8	50.6	226.7
161	G50B_100_087d	0.125	1.0	1.0	1.0	0.875	0.562	210	0.125	1.0	1.0	62.9	-25.6	-38.2	46.0	236.1	0.125	1.0	1.0	64.1	-23.7	-36.5	43.5	237.0	2.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = 4.9

1-0032030-F0 QE040-7N, Page 21/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

1-0032030-F0

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
162	R00Y_025_025d	0.25	0.0	0.0	0.25	0.25	0.125	390	0.25	0.0	0.0	25.1	15.9	10.3	19.0	32.8	0.25	0.0	0.0	27.4	14.4	14.1	20.2	44.2	4.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
163	R00Y_025_025d	0.25	0.0	0.125	0.25	0.25	0.125	360	0.25	0.0	0.125	25.2	16.9	3.5	17.2	11.6	0.25	0.0	0.125	27.6	17.1	3.2	17.4	10.9	2.4	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
164	B50R_025_025d	0.25	0.0	0.25	0.25	0.25	0.125	330	0.25	0.0	0.25	25.3	18.2	-2.1	18.3	353.3	0.25	0.0	0.25	28.1	20.0	-4.9	20.6	346.0	4.3	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
165	B34R_037_037d	0.25	0.0	0.375	0.375	0.375	0.187	311	0.256	0.0	0.375	26.8	23.3	-7.0	24.3	343.1	0.25	0.0	0.375	30.1	25.7	-10.1	27.6	338.4	5.1	311	0.683	0.0	1.0	41.9	62.2	-18.8	65.0	343.1
166	B25R_050_050d	0.25	0.0	0.5	0.5	0.5	0.25	300	0.25	0.0	0.5	27.7	26.9	-13.1	29.9	333.9	0.25	0.0	0.5	29.6	29.4	-16.7	33.9	330.3	4.8	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
167	B19R_062_062d	0.25	0.0	0.625	0.625	0.625	0.312	293	0.239	0.0	0.625	27.9	30.0	-19.3	35.7	327.2	0.25	0.0	0.625	30.1	32.3	-23.1	39.7	324.4	4.9	292	0.383	0.0	1.0	34.0	48.0	-30.9	57.1	327.2
168	B15R_075_075d	0.25	0.0	0.75	0.75	0.75	0.375	289	0.237	0.0	0.75	29.0	31.8	-26.5	41.4	320.2	0.25	0.0	0.75	30.6	34.2	-29.0	44.9	319.7	3.8	288	0.316	0.0	1.0	32.7	42.4	-35.3	55.3	320.2
169	B13R_087_087d	0.25	0.0	0.875	0.875	0.875	0.437	286	0.233	0.0	0.875	30.1	33.1	-33.5	47.1	314.6	0.25	0.0	0.875	31.4	36.1	-34.7	50.1	316.1	3.5	284	0.266	0.0	1.0	31.8	37.8	-38.3	53.8	314.6
170	B11R_100_100d	0.25	0.0	1.0	1.0	1.0	0.5	284	0.233	0.0	1.0	31.2	35.6	-39.6	53.3	311.9	0.25	0.0	1.0	31.5	36.2	-39.2	53.4	312.7	0.8	282	0.233	0.0	1.0	31.2	35.6	-39.6	53.3	311.9
171	R50Y_025_025d	0.25	0.125	0.0	0.25	0.25	0.125	60	0.25	0.125	0.0	30.0	5.6	16.9	17.8	71.4	0.25	0.125	0.0	35.0	2.2	20.1	20.2	83.7	6.8	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
172	R00Y_025_012d	0.25	0.125	0.125	0.25	0.125	0.187	390	0.25	0.124	0.124	31.1	7.9	5.1	9.5	32.8	0.25	0.125	0.125	34.1	6.3	8.7	10.7	53.9	4.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
173	B50R_025_012d	0.25	0.125	0.25	0.25	0.125	0.187	330	0.25	0.124	0.25	31.2	9.1	-1.0	9.1	353.3	0.25	0.125	0.25	34.6	9.7	-3.3	10.3	341.2	4.0	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
174	B25R_037_025d	0.25	0.125	0.375	0.375	0.25	0.25	300	0.25	0.124	0.375	32.4	13.4	-6.5	14.9	333.9	0.25	0.125	0.375	37.4	13.3	-9.0	16.1	325.8	5.5	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
175	B15R_050_037d	0.25	0.125	0.5	0.5	0.375	0.312	289	0.243	0.124	0.5	33.0	15.9	-13.2	20.7	320.2	0.25	0.125	0.5	36.0	16.9	-15.5	23.0	317.4	3.8	288	0.316	0.0	1.0	32.7	42.4	-35.3	55.3	320.2
176	B11R_062_050d	0.25	0.125	0.625	0.625	0.5	0.375	284	0.241	0.125	0.625	34.2	17.8	-19.8	26.6	311.9	0.25	0.125	0.625	36.7	19.9	-21.4	29.2	313.0	3.6	282	0.233	0.0	1.0	31.2	35.6	-39.6	53.3	311.9
177	B09R_075_062d	0.25	0.125	0.75	0.75	0.625	0.437	281	0.239	0.125	0.75	35.3	21.2	-25.6	33.2	309.5	0.25	0.125	0.75	36.1	23.1	-27.1	35.7	310.4	2.5	279	0.183	0.0	1.0	30.3	33.9	-41.0	53.2	309.5
178	B07R_087_075d	0.25	0.125	0.875	0.875	0.75	0.5	279	0.237	0.125	0.875	36.4	24.5	-31.4	39.9	307.9	0.25	0.125	0.875	36.5	26.2	-33.4	42.5	308.1	2.6	278	0.15	0.0	1.0	29.7	32.7	-41.9	53.2	307.9
179	B06R_100_087d	0.25	0.125	1.0	1.0	0.875	0.562	278	0.241	0.125	1.0	37.7	28.1	-37.0	46.5	307.1	0.25	0.125	1.0	35.8	28.1	-38.5	47.7	306.1	2.3	277	0.133	0.0	1.0	29.4	32.1	-42.3	53.1	307.1
180	Y00G_025_025d	0.25	0.25	0.0	0.25	0.25	0.125	90	0.25	0.25	0.0	35.3	-2.9	23.7	23.9	97.1	0.25	0.25	0.0	39.7	-6.0	24.4	25.1	103.8	5.3	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
181	Y00G_025_012d	0.25	0.25	0.125	0.25	0.125	0.187	90	0.25	0.25	0.124	36.2	-1.4	11.8	11.9	97.1	0.25	0.25	0.125	40.6	-3.9	12.7	13.3	107.2	5.1	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
182	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	42.2	-0.5	-0.7	0.9	235.1	5.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
183	B00R_037_012d	0.25	0.25	0.375	0.375	0.125	0.312	270	0.249	0.249	0.375	38.1	2.9	-5.9	6.6	296.4	0.25	0.25	0.375	43.4	2.9	-7.7	8.3	291.0	5.6	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
184	B00R_050_025d	0.25	0.25	0.5	0.5	0.25	0.375	270	0.249	0.249	0.5	39.0	5.8	-11.8	13.2	296.4	0.25	0.25	0.5	42.9	6.3	-13.9	15.3	294.3	4.4	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
185	B00R_062_037d	0.25	0.25	0.625	0.625	0.375	0.437	270	0.25	0.25	0.625	40.0	8.8	-17.7	19.8	296.4	0.25	0.25	0.625	43.4	9.9	-19.3	21.7	297.1	3.9	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
186	B00R_075_050d	0.25	0.25	0.75	0.75	0.5	0.5	270	0.25	0.25	0.75	40.9	11.7	-23.6	26.4	296.4	0.25	0.25	0.75	42.5	13.8	-25.3	28.9	298.6	3.1	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
187	B00R_087_062d	0.25	0.25	0.875	0.875	0.625	0.562	270	0.25	0.25	0.875	41.9	14.6	-29.5	33.0	296.4	0.25	0.25	0.875	41.9	17.3	-31.7	36.2	298.7	3.4	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
188	B00R_100_075d	0.25	0.25	1.0	1.0	0.75	0.625	270	0.25	0.25	1.0	42.8	17.6	-35.5	39.6	296.4	0.25	0.25	1.0	41.0	19.6	-36.5	41.4	298.1	2.8	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
189	Y31G_037_037d	0.25	0.375	0.0	0.375	0.375	0.187	109	0.256	0.375	0.0	41.0	-8.5	29.8	31.0	106.0	0.25	0.375	0.0	46.0	-12.2	31.8	34.0	111.0	6.5	108	0.683	1.0	0.0	79.8	-22.8	79.5	82.7	106.0
190	Y50G_037_025d	0.25	0.375	0.125	0.375	0.25	0.25	120	0.25	0.375	0.124	41.2	-7.8	16.5	18.2	115.3	0.25	0.375	0.125	46.4	-10.8	18.5	21.5	120.3	6.3	119	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
191	G00B_037_012d	0.25	0.375	0.25	0.375	0.125	0.312	150	0.249	0.375	0.249	41.4	-8.6	3.5	9.2	157.7	0.25	0.375	0.25	47.1	-8.2	5.0	9.6	148.4	5.9	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
192	G50B_037_012d	0.25	0.375	0.375	0.375	0.125	0.312	210	0.249	0.375	0.375	42.2	-3.6	-5.4	6.5	236.1	0.25	0.375	0.375	48.9	-4.6	-6.4	7.9	234.4	6.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
193	G75B_050_025d	0.25	0.375	0.5	0.5	0.25	0.375	240	0.249	0.375	0.5	43.4	-1.5	-11.2	11.3	262.3	0.25	0.375	0.5	49.0	-2.0	-12.5	12.7	260.8	5.7	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
194	G84B_062_037d	0.25	0.375	0.625	0.625	0.375	0.437	251	0.25	0.368	0.625	43.9	1.9	-17.2	17.3	276.3	0.25	0.375	0.625	48.8	1.3	-18.3	18.4	274.2	5.1	251	0.0	0.316	1.0	35.7	5.1	-45.8	46.1	276.3
195	G88B_075_050d	0.25	0.375	0.75	0.75	0.5	0.5	256	0.25	0.366	0.75	44.6	5.2	-23.1	23.7	282.8	0.25	0.375	0.75	47.9	5.5	-24.3	24.9	282.8	3.4	257	0.0	0.233	1.0	32.7	10.5	-46.2	47.4	282.8
196	G90B_087_062d	0.25	0.375	0.875	0.875	0.625	0.562	259	0.25	0.364	0.875	45.3	8.5	-29.1	30.4	286.2	0.25	0.375	0.875	47.6	8.6	-30.2	31.4	285.9	2.5	260	0.0	0.183	1.0	30.8	13.6	-46.7	48.6	286.2
197	G92B_100_075d	0.25	0.375	1.0	1.0	0.75	0.625	261	0.25	0.362	1.0	46.0	11.8	-35.1	37.1	288.6	0.25	0.375	1.0	45.1	12.4	-35.9	38.0	289.1	1.3	262	0.0	0.15	1.0	29.5	15.8	-46.9	49.4	288.6
198	Y50G_050_050d	0.25	0.5	0.0	0.5	0.5	0.25	120	0.25	0.5	0.0	45.2	-15.6	33.0	36.5	115.3	0.25	0.5	0.0	49.3	-19.6	36.6	41.5	118.1	6.7	119	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
199	Y68G_050_037d	0.25	0.5	0.125	0.5	0.375	0.312	131	0.243	0.5	0.124	45.2	-15.8	20.1	25.6	128.2	0.25	0.5	0.125	49.2	-18.5	23.1	29.6	128.7	5.7	131	0.316	1.0	0.0	65.1	-42.3	53.6	68.2	128.2
200	G00B_050_025d	0.25	0.5	0.25	0.5	0.25	0.375	150	0.249	0.5	0.249	45.7	-17.2	7.0	18.5	157.7	0.25	0.5	0.25	50.7	-15.5	10.3	18.6	146.4	6.1	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
201	G25B_050_025d	0.25	0.5	0.375	0.5	0.25	0.375	180	0.249	0.5	0.375	46.4	-12.7	-3.0	13.1	193.5	0.25	0.5	0.375	52.2	-11.8	-1.8	12.0	188.6	6.0	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
202	G50B_050_025d	0.25	0.5	0.5	0.5	0.25	0.375	210	0.249	0.5	0.5	47.3	-7.3	-10.9	13.1	236.1	0.25	0.5	0.5	53.2	-8.3	-11.6	14.3	234.5	6.1	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
203	G65B_062_037d	0.25	0.5	0.625	0.625	0.375	0.437	229	0.25	0.506	0.625	49.1	-6.2	-16.6	17.7	249.4	0.25	0.5	0.625	54.4	-6.0	-17.1	18.2	250.5	5.3	228	0.0	0.683	1.0	49.6	-16.6	-44.3	47.4	249.4
204	G75B_075_050d	0.25	0.5	0.75	0.75	0.5	0.5	240	0.25	0.5	0.75	49.6	-3.0	-22.5	22.7	262.3	0.25	0.5	0.75	53.6	-2.7	-23.0	23.2	263.1	4.0	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
205	G80B_087_062d	0.25	0.5	0.875	0.875	0.625	0.562	247	0.25	0.489	0.875	50.0	0.5	-28.4	28.4	271.0	0.25	0.5	0.875	52.8	0.9	-29.3	29.3	271.7	2.9	247	0.0	0.383	1.0	38.2	0.8	-45.4	45.4	271.0
206	G84B_100_075d	0.25	0.5	1.0	1.0	0.75	0.625	251	0.25	0.487	1.0	50.7	3.8	-34.4	34.6	276.3	0.25	0.5	1.0	50.2	5.3	-34.6	35.0	278.7	1.5	251	0.0	0.316	1.0	35.7	5.1	-45.8	46.1	276.3
207	Y61G_062_062d	0.25	0.625	0.0	0.625	0.625	0.312	127	0.239	0.625	0.0	49.8	-22.8	36.6	43.2	121.9	0.25	0.625	0.0	53.0	-26.9	40.4	48.5	123.6	6.3	127	0.383	1.0	0.0	69.1	-36.5	58.6	69.1	121.9
208	Y76G_062_050d	0.25	0.625	0.125	0.625	0.5	0.375	136	0.241	0.625	0.125	48.7	-24.4	23.3	33.8	136.2	0.25	0.625	0.125	53.0	-25.5	28.1	37.9	132.1	6.4	137	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136.2
209	G00B_062_037d	0.25	0.625	0.25	0.625	0.375	0.437	150	0.25	0.625	0.25	49.9	-25.8	10.5	27.8	157.7	0.25	0.625	0.25	54.5	-22.5	15.2	27.2	145.9	7.3	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
210	G15B_062_037d	0.25	0.625	0.375	0.625	0.375	0.437	169	0.25	0.625	0.368	50.6	-22.3	1.4	22.3	176.3	0.25	0.625	0.375	56.0	-19.1	3.7	19.4	168.7	6.7	168	0.0	1.0	0.316	53.7	-59.5	3.7	59.6	176.3
211	G34B_062_037d	0.25	0.625	0.5	0.625	0.375	0.437	191	0.25	0.625	0.506	51.6	-15.9	-9.8	18.7	211.7	0.25	0.625	0.5	57.0	-15.1	-8.1	17.1	208.2	5.7	191	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9	211.7
212	G50B_062_037d	0.25	0.625	0.625	0.625	0.375	0.437	210	0.25	0.625	0.625	52.3	-10.9	-16.4	19.7	236.1	0.25	0.625	0.625	57.9	-11.4	-16.5	20.1	235.2	5.6	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
213	G61B_075_050d	0.25	0.625	0.75	0.75	0.5	0.5	224	0.25	0.633	0.75	54.4	-10.2	-22.0	24.3	245.1	0.25	0.625	0.75	58.5	-9.6	-22.1	24.1	246.5	4.1	222	0.0	0.766	1.0	52.2	-20.4	-44.1	48.6	245.1
214	G69B_087_062d	0.25	0.625	0.875	0.875	0.625	0.562	233	0.25	0.635	0.875	55.7	-8.3	-27.8	29.0	253.2	0.25	0.625	0.875	58.5	-6.3	-27.9	28.6	257.1	3.4	232	0.0	0.616	1.0	47.4	-13.4	-44.5	46.4	253.2
215	G75B_100_075d	0.25	0.625	1.0	1.0	0.75	0.625	240	0.25	0.625	1.0	55.9	-4.5	-33.7	34.0	262.3	0.25	0.625	1.0	55.9	-3.4	-33.7	33.9	264.1	1.0	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
216	Y68G_075_075d	0.25	0.75	0.0	0.75	0.75	0.375	131	0.237	0.75	0.0	53.2	-31.7	40.2	51.2	128.2	0.25	0.75	0.0	55.8	-33.9	43.1	54.9	128.1	4.5	131	0.316	1.0	0.0	65.1	-42.3	53.6	68.2	128.2
217	Y81G_075_062d	0.25	0.75	0.125	0.75	0.625	0.437	139	0.239	0.75	0.125	53.2	-32.3	27.0	42.1	140.1	0.25	0.75	0.125	56.3	-32.3	31.6	45.2	135.5	5.5	140	0.183	1.0	0.0	59.0	-51.8	43.2	67.4	140.1
218	G00B_075_050d	0.25	0.75	0.25	0.75	0.5	0.5	150	0.25	0.75	0.25	54.2	-34.4	14.0	37.1	157.7	0.25	0.75	0.25	57.4	-29.4	20.1	35.6	145.6	8.4	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
219	G11B_075_050d	0.25	0.75	0.375	0.75	0.5	0.5	164	0.25	0.75	0.366	54.8	-31.3	5.5	31.8	170.0	0.25	0.75	0.375	58.8	-26.2	8.7	27.7	161.5	7.1	162	0.0	1.0	0.233	53.2	-62.6	11.0	63.6	170.0
220	G25B_075_050d	0.25	0.75	0.5	0.75	0.5	0.5	180	0.25	0.75	0.5	55.7	-25.5	-6.1	26.2	193.5	0.25	0.75	0.5	59.7	-22.4	-3.3	22.6	188.5	5.8	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
221	G38B_075_050d	0.25	0.75	0.625	0.75	0.5	0.5	196	0.25	0.75	0.633	56.7	-19.2	-15.8	24.9	219.6	0.25	0.75	0.625	60.8	-18.2	-13.3	22.6	216.0	4.9	197	0.0	1.0	0.766	56.8	-38.4	-31.7	49.8	219.6
222	G50B_075_050d	0.25	0.75	0.75	0.75	0.5	0.5	210	0.25	0.75	0.75	57.4	-14.6	-21.8	26.3	236.1	0.25	0.75	0.75	61.9	-14.4	-21.4	25.8	236.0	4.4	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
223	G59B_087_062d	0.25	0.75	0.875	0.875	0.625	0.562	221	0.25	0.76	0.875	59.6	-14.0	-27.5	30.9	242.9	0.25	0.75	0.875	63.0	-13.2	-27.5	30.5	244.3	3.5	219	0.0	0.816	1.0	53.6	-22.5	-44.1	49.5	242.9
224	G65B_100_075d	0.25	0.75	1.0	1.0	0.75	0.625	229	0.25	0.762	1.0	61.1	-12.4	-33.2	35.5	249.4	0.25	0.75	1.0	60.7	-9.6	-32.8	34.2	253.6	2.9	228	0.0	0.683	1.0	49.6	-16.6	-44.3	47.4	249.4
225	Y73G_087_087d	0.25	0.875	0.0	0.875	0.875	0.437	134	0.233	0.875	0.0	56.4	-40.6	43.1	59.3	133.2	0.25	0.875	0.0	59.0	-41.7	45.6	61.8	132.4	3.7	135	0.266	1.0	0.0	61.9	-46.5	49.3	67.8	133.2
226	Y85G_087_075d	0.25	0.875	0.125	0.875	0.75	0.5	141	0.237	0.875	0.125	57.7	-40.2	30.6	50.5	142.7	0.25	0.875	0.125	59.7	-39.8	35.0	53.0	138.6	4.8	142	0.15	1.0	0.0	58.1	-53.6	40.8	67.4	142.7
227	G00B_087_062d	0.25	0.875	0.25	0.875	0.625	0.562	150	0.25	0.875	0.25	58.5	-43.0	17.5	46.4	157.7	0.25	0.875	0.25	61.2	-36.6	24.8	44.2	145.8	10.0	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
228	G09B_087_062d	0.25	0.875	0.375	0.875	0.625	0.562	161	0.25	0.875	0.364	59.1	-40.3	9.2	41.3	167.1	0.25	0.875	0.375	62.2	-33.7	13.3	36.3	158.3	8.3	159	0.0	1.0	0.183	52.9	-64.5	14.7	66.1	167.1
229	G19B_087_062d	0.25	0.875	0.5	0.875	0.625	0.562	173	0.25	0.875	0.489	59.9	-35.4	-1.1	35.4	181.9	0.25	0.875	0.5	63.3	-29.9	1.3	30.0	177.4	6.9	172	0.0	1.0	0.383	54.1	-56.6	-1.8	56.6	181.9
230	G30B_087_062d	0.25	0.875	0.625	0.875	0.625	0.562	187	0.25	0.875	0.635	60.9	-28.4	-13.3	31.4	205.1	0.25	0.875	0.625	64.1	-25.6	-10.2	27.6	201.8	5.3	187	0.0	1.0	0.616	55.7	-45.5	-21.3	50.3	205.1
231	G40B_087_062d	0.25	0.875	0.75	0.875	0.625	0.562	199	0.25	0.875	0.76	61.8	-22.9	-21.4	31.4	223.1	0.25	0.875	0.75	65.2	-21.6	-19.1	28.8	221.5	4.3	200	0.0	1.0	0.816	57.1	-36.6	-34.3	50.2	223.1
232	G50B_087_062d	0.25	0.875	0.875	0.875	0.625	0.562	210	0.25	0.875	0.875	62.5	-18.3	-27.3	32.9	236.1	0.25	0.875	0.875	66.0	-17.8	-26.8	32.2	236.4	3.6	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
233	G57B_100_075d	0.25	0.875	1.0	1.0	0.75	0.625	219	0.25	0.887	1.0	64.7	-17.9	-33.0	37.5	241.4	0.25	0.875	1.0	65.2	-15.9	-32.2	36.0	243.6	2.1	217	0.0	0.85	1.0	54.5	-23.9	-44.0	50.1	241.4
234	Y76G_100_100d	0.25	1.0	0.0	1.0	1.0	0.5	136	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136.2	0.25	1.0	0.0	60.8	-47.8	47.8	67.6	134.9	1.5	137	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136.2
235	Y86G_100_087d	0.25	1.0	0.125	1.0	0.875	0.562	142	0.241	1.0	0.125	62.3	-47.7	34.6	58.9	144.0	0.25	1.0	0.125	61.9	-45.5	38.0	59.3	140.0	4.1	142	0.133	1.0	0.0	57.6	-54.5	39.5	67.3	144.0
236	G00B_100_075d	0.25	1.0	0.25	1.0	0.75	0.625	150	0.25	1.0	0.25	62.8	-51.6	21.0	55.7	157.7	0.25	1.0	0.25	62.9	-43.1	27.5	51.2	147.4	10.6	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
237	G07B_100_075d	0.25	1.0	0.375	1.0	0.75	0.625	159	0.25	1.0	0.362	63.4	-49.2	13.0	50.9	165.1	0.25	1.0	0.375	63.8	-40.3	17.6	44.0	156.3	10.0	157	0.0	1.0	0.15	52.7	-65.6	17.3	67.9	165.1
238	G15B_100_075d	0.25	1.0	0.5	1.0	0.75	0.625	169	0.25	1.0	0.487	64.1	-44.6	2.8	44.7	176.3	0.25	1.0	0.5	64.5	-37.2	6.3	37.7	170.3	8.2	168	0.0	1.0	0.316	53.7	-59.5	3.7	59.6	176.3
239	G25B_100_075d	0.25	1.0	0.625	1.0	0.75	0.625	180	0.25	1.0	0.625	65.0	-38.3	-9.2	39.4	193.5	0.25	1.0	0.625	65.9	-32.6	-5.2	33.1	189.1	6.9	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
240	G34B_100_075d	0.25	1.0	0.75	1.0	0.75	0.625	191	0.25	1.0	0.762	66.0	-31.8	-19.7	37.4	211.7	0.25	1.0	0.75	67.0	-28.1	-15.8	32.3	209.4	5.4	191	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9	211.7
241	G42B_100_075d	0.25	1.0	0.875	1.0	0.75	0.625	201	0.25	1.0	0.887	66.9	-26.5	-27.0	37.8	225.5	0.25	1.0	0.875	67.6	-24.4	-24.2	34.4	224.8	3.5	202	0.0	1.0	0.85	57.4	-35.3	-36.0	50.4	225.5
242	G50B_100_075d	0.25	1.0	1.0	1.0	0.75	0.625	210	0.25	1.0	1.0	67.6	-21.9	-32.8	39.4	236.1	0.25	1.0	1.0	68.5	-20.3	-31.3	37.3	236.9	2.3	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = 4.8

1-0032130-F0

QE040-7N, Page 22/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* -> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 23/33

n	HIC*Fd	rgb_Fd			ict_Fd			$h_{si\_F,d}$	rgb*Fd			LabCh*Fd				
243	R00Y_037_037d	0.375	0.0	0.0	0.375	0.375	0.187	390	0.375	0.0	0.0	28.8	23.9	15.4	28.5	32.8
244	R18Y_037_037d	0.375	0.0	0.125	0.375	0.375	0.187	371	0.375	0.0	0.118	28.9	24.6	9.4	26.4	20.9
245	B65R_037_037d	0.375	0.0	0.25	0.375	0.375	0.187	349	0.375	0.0	0.256	29.1	26.1	1.5	26.1	3.2
246	B50R_037_037d	0.375	0.0	0.375	0.375	0.375	0.187	330	0.375	0.0	0.375	29.1	27.3	−3.2	27.5	353.3
247	B38R_050_050d	0.375	0.0	0.5	0.5	0.5	0.25	316	0.383	0.0	0.5	30.6	33.2	−7.2	34.0	347.6
248	B30R_062_062d	0.375	0.0	0.625	0.625	0.625	0.312	307	0.385	0.0	0.625	32.1	36.5	−13.8	39.1	339.2
249	B25R_075_075d	0.375	0.0	0.75	0.75	0.75	0.375	300	0.375	0.0	0.75	32.8	40.3	−19.7	44.9	333.9
250	B20R_087_087d	0.375	0.0	0.875	0.875	0.875	0.437	295	0.364	0.0	0.875	32.9	43.5	−26.0	50.7	329.1
251	B18R_100_100d	0.375	0.0	1.0	1.0	1.0	0.5	292	0.366	0.0	1.0	33.6	46.9	−31.8	56.7	325.8
252	R31Y_037_037d	0.375	0.125	0.0	0.375	0.375	0.187	49	0.375	0.118	0.0	33.1	14.4	21.4	25.8	55.9
253	R00Y_037_025d	0.375	0.125	0.125	0.375	0.25	0.25	390	0.375	0.124	0.124	34.8	15.9	10.3	19.0	32.8
254	R00Y_037_025d	0.375	0.125	0.25	0.375	0.25	0.25	360	0.375	0.124	0.25	34.9	16.9	3.5	17.2	11.6
255	B50R_037_025d	0.375	0.125	0.375	0.375	0.25	0.25	330	0.375	0.124	0.375	35.0	18.2	−2.1	18.3	353.3
256	B34R_050_037d	0.375	0.125	0.5	0.5	0.375	0.312	311	0.381	0.124	0.5	36.5	23.3	−7.0	24.3	343.1
257	B25R_062_050d	0.375	0.125	0.625	0.625	0.5	0.375	300	0.375	0.125	0.625	37.5	26.9	−13.1	29.9	333.9
258	B19R_075_062d	0.375	0.125	0.75	0.75	0.625	0.437	293	0.364	0.125	0.75	37.6	30.0	−19.3	35.7	327.2
259	B15R_087_075d	0.375	0.125	0.875	0.875	0.75	0.5	289	0.362	0.125	0.875	38.7	31.8	−26.5	41.4	320.2
260	B13R_100_087d	0.375	0.125	1.0	1.0	0.875	0.562	286	0.358	0.125	1.0	39.8	33.1	−33.5	47.1	314.6
261	R68Y_037_037d	0.375	0.25	0.0	0.375	0.375	0.187	71	0.375	0.256	0.0	39.6	2.6	29.8	29.9	84.9
262	R50Y_037_025d	0.375	0.25	0.125	0.375	0.25	0.25	60	0.375	0.25	0.124	39.8	5.6	16.9	17.8	71.4
263	R00Y_037_012d	0.375	0.25	0.25	0.375	0.125	0.312	390	0.375	0.249	0.249	40.8	7.9	5.1	9.5	32.8
264	B50R_037_012d	0.375	0.25	0.375	0.375	0.125	0.312	330	0.375	0.249	0.375	40.9	9.1	−1.0	9.1	353.3
265	B25R_050_025d	0.375	0.25	0.5	0.5	0.25	0.375	300	0.375	0.249	0.5	42.1	13.4	−6.5	14.9	333.9
266	B15R_062_037d	0.375	0.25	0.625	0.625	0.375	0.437	289	0.368	0.25	0.625	42.7	15.9	−13.2	20.7	320.2
267	B11R_075_050d	0.375	0.25	0.75	0.75	0.5	0.5	284	0.366	0.25	0.75	43.9	17.8	−19.8	26.6	311.9
268	B09R_087_062d	0.375	0.25	0.875	0.875	0.625	0.562	281	0.364	0.25	0.875	45.0	21.2	−25.6	33.2	309.5
269	B07R_100_075d	0.375	0.25	1.0	1.0	0.75	0.625	279	0.362	0.25	1.0	46.2	24.5	−31.4	39.9	307.9
270	Y00G_037_037d	0.375	0.375	0.0	0.375	0.375	0.187	90	0.375	0.375	0.0	44.2	−4.4	35.6	35.9	97.1
271	Y00G_037_025d	0.375	0.375	0.125	0.375	0.25	0.25	90	0.375	0.375	0.124	45.0	−2.9	23.7	23.9	97.1
272	Y00G_037_012d	0.375	0.375	0.25	0.375	0.125	0.312	90	0.375	0.375	0.249	45.9	−1.4	11.8	11.9	97.1
273	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0
274	B00R_050_012d	0.375	0.375	0.5	0.5	0.125	0.437	270	0.375	0.375	0.5	47.8	2.9	−5.9	6.6	296.4
275	B00R_062_025d	0.375	0.375	0.625	0.625	0.25	0.5	270	0.375	0.375	0.625	48.7	5.8	−11.8	13.2	296.4
276	B00R_075_037d	0.375	0.375	0.75	0.75	0.375	0.562	270	0.375	0.375	0.75	49.7	8.8	−17.7	19.8	296.4
277	B00R_087_050d	0.375	0.375	0.875	0.875	0.5	0.625	270	0.375	0.375	0.875	50.6	11.7	−23.6	26.4	296.4
278	B00R_100_062d	0.375	0.375	1.0	1.0	0.625	0.687	270	0.375	0.375	1.0	51.6	14.6	−29.5	33.0	296.4
279	Y23G_050_050d	0.375	0.5	0.0	0.5	0.5	0.25	104	0.383	0.5	0.0	50.5	−9.6	41.8	42.9	102.9
280	Y31G_050_037d	0.375	0.5	0.125	0.5	0.375	0.312	109	0.381	0.5	0.124	50.7	−8.5	29.8	31.0	106.0
281	Y50G_050_025d	0.375	0.5	0.25	0.5	0.25	0.375	120	0.375	0.5	0.249	50.9	−7.8	16.5	18.2	115.3
282	G00B_050_012d	0.375	0.5	0.375	0.5	0.125	0.437	150	0.375	0.5	0.375	51.1	−8.6	3.5	9.2	157.7
283	G50B_050_012d	0.375	0.5	0.5	0.5	0.125	0.437	210	0.375	0.5	0.5	51.9	−3.6	−5.4	6.5	236.1
284	G75B_062_025d	0.375	0.5	0.625	0.625	0.25	0.5	240	0.375	0.5	0.625	53.1	−1.5	−11.2	11.3	262.3
285	G84B_075_037d	0.375	0.5	0.75	0.75	0.375	0.562	251	0.375	0.493	0.75	53.6	1.9	−17.2	17.3	276.3
286	G88B_087_050d	0.375	0.5	0.875	0.875	0.5	0.625	256	0.375	0.491	0.875	54.3	5.2	−23.1	23.7	282.8
287	G90B_100_062d	0.375	0.5	1.0	1.0	0.625	0.687	259	0.375	0.489	1.0	55.0	8.5	−29.1	30.4	286.2
288	Y38G_062_062d	0.375	0.625	0.0	0.625	0.625	0.312	113	0.385	0.625	0.0	54.6	−16.0	47.3	49.9	108.7
289	Y50G_062_050d	0.375	0.625	0.125	0.625	0.5	0.375	120	0.375	0.625	0.125	54.9	−15.6	33.0	36.5	115.3
290	Y68G_062_037d	0.375	0.625	0.25	0.625	0.375	0.437	131	0.368	0.625	0.25	54.9	−15.8	20.1	25.6	128.2
291	G00B_062_025d	0.375	0.625	0.375	0.625	0.25	0.5	150	0.375	0.625	0.375	55.4	−17.2	7.0	18.5	157.7
292	G25B_062_025d	0.375	0.625	0.5	0.625	0.25	0.5	180	0.375	0.625	0.5	56.1	−12.7	−3.0	13.1	193.5
293	G50B_062_025d	0.375	0.625	0.625	0.625	0.25	0.5	210	0.375	0.625	0.625	57.0	−7.3	−10.9	13.1	236.1
294	G65B_075_037d	0.375	0.625	0.75	0.75	0.375	0.562	229	0.375	0.631	0.75	58.8	−6.2	−16.6	17.7	249.4
295	G75B_087_050d	0.375	0.625	0.875	0.875	0.5	0.625	240	0.375	0.625	0.875	59.4	−3.0	−22.5	22.7	262.3
296	G80B_100_062d	0.375	0.625	1.0	1.0	0.625	0.687	247	0.375	0.614	1.0	59.7	0.5	−28.4	28.4	271.0
297	Y50G_075_075d	0.375	0.75	0.0	0.75	0.75	0.375	120	0.375	0.75	0.0	59.0	−23.5	49.5	54.8	115.3
298	Y61G_075_062d	0.375	0.75	0.125	0.75	0.625	0.437	127	0.364	0.75	0.125	59.5	−22.8	36.6	43.2	121.9
299	Y76G_075_050d	0.375	0.75	0.25	0.75	0.5	0.5	136	0.366	0.75	0.25	58.5	−24.4	23.3	33.8	136.2
300	G00B_075_037d	0.375	0.75	0.375	0.75	0.375	0.562	150	0.375	0.75	0.375	59.7	−25.8	10.5	27.8	157.7
301	G15B_075_037d	0.375	0.75	0.5	0.75	0.375	0.562	169	0.375	0.75	0.493	60.3	−22.3	1.4	22.3	176.3
302	G34B_075_037d	0.375	0.75	0.625	0.75	0.375	0.562	191	0.375	0.75	0.631	61.3	−15.9	−9.8	18.7	211.7
303	G50B_075_037d	0.375	0.75	0.75	0.75	0.375	0.562	210	0.375	0.75	0.75	62.1	−10.9	−16.4	19.7	236.1
304	G61B_087_050d	0.375	0.75	0.875	0.875	0.5	0.625	224	0.375	0.758	0.875	64.1	−10.2	−22.0	24.3	245.1
305	G69B_100_062d	0.375	0.75	1.0	1.0	0.625	0.687	233	0.375	0.76	1.0	65.4	−8.3	−27.8	29.0	253.2
306	Y58G_087_087d	0.375	0.875	0.0	0.875	0.875	0.437	125	0.364	0.875	0.0	63.6	−30.8	53.2	61.4	120.0
307	Y68G_087_075d	0.375	0.875	0.125	0.875	0.75	0.5	131	0.362	0.875	0.125	63.0	−31.7	40.2	51.2	128.2
308	Y81G_087_062d	0.375	0.875	0.25	0.875	0.625	0.562	139	0.364	0.875	0.25	62.9	−32.3	27.0	42.1	140.1
309	G00B_087_050d	0.375	0.875	0.375	0.875	0.5	0.625	150	0.375	0.875	0.375	63.9	−34.4	14.0	37.1	157.7
310	G11B_087_050d	0.375	0.875	0.5	0.875	0.5	0.625	164	0.375	0.875	0.491	64.6	−31.3	5.5	31.8	170.0
311	G25B_087_050d	0.375	0.875	0.625	0.875	0.5	0.625	180	0.375	0.875	0.625	65.4	−25.5	−6.1	26.2	193.5
312	G38B_087_050d	0.375	0.875	0.75	0.875	0.5	0.625	196	0.375	0.875	0.758	66.4	−19.2	−15.8	24.9	219.6
313	G50B_087_050d	0.375	0.875	0.875	0.875	0.5	0.625	210	0.375	0.875	0.875	67.1	−14.6	−21.8	26.3	236.1
314	G59B_100_062d	0.375	0.875	1.0	1.0	0.625	0.687	221	0.375	0.885	1.0	69.3	−14.0	−27.5	30.9	242.9
315	Y63G_100_100d	0.375	1.0	0.0	1.0	1.0	0.5	128	0.366	1.0	0.0	68.3	−37.7	57.4	68.7	123.2
316	Y73G_100_087d	0.375	1.0	0.125	1.0	0.875	0.562	134	0.358	1.0	0.125	66.1	−40.6	43.1	59.3	133.2
317	Y85G_100_075d	0.375	1.0	0.25	1.0	0.75	0.625	141	0.362	1.0	0.25	67.4	−40.2	30.6	50.5	142.7
318	G00B_100_062d	0.375	1.0	0.375	1.0	0.625	0.687	150	0.375	1.0	0.375	68.2	−43.0	17.5	46.4	157.7
319	G09B_100_062d	0.375	1.0	0.5	1.0	0.625	0.687	161	0.375	1.0	0.489	68.8	−40.3	9.2	41.3	167.1
320	G19B_100_062d	0.375	1.0	0.625	1.0	0.625	0.687	173	0.375	1.0	0.614	69.6	−35.4	−1.1	35.4	181.9
321	G30B_100_062d	0.375	1.0	0.75	1.0	0.625	0.687	187	0.375	1.0	0.76	70.6	−28.4	−13.3	31.4	205.1
322	G40B_100_062d	0.375	1.0	0.875	1.0	0.625	0.687	199	0.375	1.0	0.885	71.5	−22.9	−21.4	31.4	223.1
323	G50B_100_062d	0.375	1.0	1.0	1.0	0.625	0.687	210	0.375	1.0	1.0	72.2	−18.3	−27.3	32.9	236.1

n	rgb*'Fd			LabCh*'Fd					DE*'Fd	$h_{siM,d}$	rgb*Md			LabCh*Md				
243	0.375	0.0	0.0	30.3	25.2	19.8	32.0	38.1	4.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
244	0.375	0.0	0.125	31.0	26.7	10.6	28.7	21.7	3.1	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
245	0.375	0.0	0.25	31.0	29.6	0.6	29.6	1.1	4.0	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
246	0.375	0.0	0.375	31.3	31.6	−6.1	32.2	348.9	5.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
247	0.375	0.0	0.5	31.9	37.4	−10.7	38.9	343.9	5.6	317	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6
248	0.375	0.0	0.625	33.4	41.7	−15.9	44.6	339.1	5.7	307	0.616	0.0	1.0	40.7	58.5	−22.1	62.5	339.2
249	0.375	0.0	0.75	33.3	44.0	−22.0	49.2	333.4	4.3	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
250	0.375	0.0	0.875	33.7	46.7	−27.5	54.2	329.5	3.5	294	0.416	0.0	1.0	35.1	49.7	−29.7	57.9	329.1
251	0.375	0.0	1.0	33.8	47.6	−31.2	56.9	326.7	0.9	291	0.366	0.0	1.0	33.6	46.9	−31.8	56.7	325.8
252	0.375	0.125	0.0	37.3	11.8	25.7	28.3	65.2	6.5	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
253	0.375	0.125	0.125	37.4	14.4	14.9	20.7	46.0	5.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
254	0.375	0.125	0.25	37.9	17.0	3.4	17.3	11.5	3.0	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
255	0.375	0.125	0.375	38.8	19.4	−5.1	20.1	345.2	4.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
256	0.375	0.125	0.5	38.9	25.0	−9.8	26.9	338.4	4.0	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
257	0.375	0.125	0.625	39.7	28.4	−15.0	32.1	332.0	3.2	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
258	0.375	0.125	0.75	39.3	32.4	−21.0	38.7	327.0	3.4	292	0.383	0.0	1.0	34.0	48.0	−30.9	57.1	327.2
259	0.375	0.125	0.875	39.2	36.7	−26.3	45.1	324.3	4.8	288	0.316	0.0	1.0	32.7	42.4	−35.3	55.3	320.2
260	0.375	0.125	1.0	38.5	38.5	−30.9	49.4	321.2	6.2	284	0.266	0.0	1.0	31.8	37.8	−38.3	53.8	314.6
261	0.375	0.25	0.0	45.8	0.0	33.2	33.2	90.1	7.5	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
262	0.375	0.25	0.125	46.1	2.9	20.2	20.4	81.6	7.6	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
263	0.375	0.25	0.25	46.9	5.9	7.8	9.8	52.4	6.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
264	0.375	0.25	0.375	47.6	9.0	−3.1	9.5	340.5	6.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
265	0.375	0.25	0.5	47.5	13.3	−8.5	15.8	327.2	5.7	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
266	0.375	0.25	0.625	47.5	17.0	−14.2	22.2	320.1	4.9	288	0.316	0.0	1.0	32.7	42.4	−35.3	55.3	320.2
267	0.375	0.25	0.75	46.6	21.4	−19.6	29.1	317.5	4.5	282	0.233	0.0	1.0	31.2	35.6	−39.6	53.3	311.9
268	0.375	0.25	0.875	46.4	26.1	−24.8	36.0	316.4	5.1	279	0.183	0.0	1.0	30.3	33.9	−41.0	53.2	309.5
269	0.375	0.25	1.0	44.9	28.5	−29.3	40.9	314.1	4.6	278	0.15	0.0	1.0	29.7	32.7	−41.9	53.2	307.9
270	0.375	0.375	0.0	51.2	−7.8	37.9	38.7	101.6	8.1	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
271	0.375	0.375	0.125	52.2	−6.1	24.5	25.2	104.0	7.8	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
272	0.375	0.375	0.25	53.2	−3.5	11.1	11.7	107.7	7.5	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
273	0.375	0.375	0.375	55.0	−0.4	−0.6	0.7	234.3	8.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
274	0.375	0.375	0.5	54.3	3.8	−6.8	7.8	299.3	6.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
275	0.375	0.375	0.625	54.1	7.4	−12.4	14.5	300.9	5.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
276	0.375	0.375	0.75	53.0	12.0	−18.0	21.6	303.6	4.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
277	0.375	0.375	0.875	52.8	16.1	−23.1	28.2	305.0	4.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
278	0.375	0.375	1.0	50.6	20.1	−27.9	34.4	305.8	5.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
279	0.375	0.5	0.0	56.3	−13.1	45.9	47.8	106.0	7.9	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
280	0.375	0.5	0.125	56.6	−11.8	31.7	33.8	110.4	7.0	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
281	0.375	0.5	0.25	57.5	−9.7	17.0	19.6	119.8	6.9	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
282	0.375	0.5	0.375	58.7	−6.9	4.9	8.5	144.3	7.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
283	0.375	0.5	0.5	59.5	−3.8	−5.3	6.5	234.2	7.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
284	0.375	0.5	0.625	60.2	−0.6	−11.1	11.1	266.4	7.1	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
285	0.375	0.5	0.75	59.2	3.4	−16.6	17.0	281.6	5.8	251	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276.3
286	0.375	0.5	0.875	59.3	7.4	−21.7	23.0	288.9	5.5	257	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8
287	0.375	0.5	1.0	55.9	13.0	−26.9	29.9	295.8	5.1	260	0.0	0.183	1.0	30.8	13.6	−46.7	48.6	286.2
288	0.375	0.625	0.0	60.4	−18.5	50.6	53.8	110.0	7.0	112	0.616	1.0	0.0	76.8	−25.7	75.6	79.9	108.7
289	0.375	0.625	0.125	60.6	−17.7	36.4	40.5	115.9	6.9	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
290	0.375	0.625	0.25	60.9	−16.0	21.8	27.0	126.2	6.2	131	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128.2
291	0.375	0.625	0.375	62.5	−13.0	10.0	16.4	142.5	8.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
292	0.375	0.625	0.5	63.7	−10.0	−0.6	10.0	183.8	8.3	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
293	0.375	0.625	0.625	64.4	−6.8	−9.7	11.9	235.0	7.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
294	0.375	0.625	0.75	65.1	−4.4	−15.3	15.9	253.7	6.6	228	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249.4
295	0.375	0.625	0.875	64.5	0.0	−20.6	20.6	270.0	6.2	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
296	0.375	0.625	1.0	62.2	3.9	−25.6	25.9	278.6	5.0	247	0.0	0.383	1.0	38.2	0.8	−45.4	45.4	271.0
297	0.375	0.75	0.0	63.2	−24.9	53.5	59.0	115.0	6.0	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
298	0.375	0.75	0.125	63.3	−24.2	39.4	46.3	121.6	4.8	127	0.383	1.0	0.0	69.1	−36.5	58.6	69.1	121.9
299	0.375	0.75	0.25	64.3	−22.1	26.6	34.6	129.7	7.0	137	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2
300	0.375	0.75	0.375	65.4	−19.1	14.2	23.8	143.4	9.5	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
301	0.375	0.75	0.5	66.4	−16.3	3.8	16.8	166.6	8.8	168	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176.3
302	0.375	0.75	0.625	67.6	−12.9	−6.4	14.4	206.5	7.7	191	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211.7
303	0.375	0.75	0.75	68.5	−9.7	−14.3	17.3	235.6	6.9	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
304	0.375	0.75	0.875	69.8	−7.4	−19.6	20.9	249.2	6.7	222	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1
305	0.375	0.75	1.0	67.3	−3.3	−24.7	24.9	262.3	6.2	232	0.0	0.616	1.0	47.4	−13.4	−44.5	46.4	253.2
306	0.375	0.875	0.0	66.2	−31.9	56.0	64.5	119.6	4.0	125	0.416	1.0	0.0	70.2	−35.2	60.8	70.2	120.0
307	0.375	0.875	0.125	67.1	−30.2	43.1	52.7	125.0	5.3	131	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128.2
308	0.375	0.875	0.25	68.0	−28.2	31.4	42.2	131.9	7.9	140	0.183	1.0	0.0	59.0	−51.8	43.2	67.4	140.1
309	0.375	0.875	0.375	69.3	−25.1	19.2	31.6	142.6	11.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
310	0.375	0.875	0.5	70.1	−22.6	8.2	24.1	159.8	10.6	162	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0
311	0.375	0.875	0.625	71.3	−19.2	−2.1	19.4	186.2	9.4	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
312	0.375	0.875	0.75	72.4	−15.8	−11.2	19.4	215.4	8.3	197	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6
313	0.375	0.875	0.875	73.4	−12.5	−18.6	22.4	235.9	7.3	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
314	0.375	0.875	1.0	72.0	−9.9	−23.9	25.9	247.3	6.1	219	0.0	0.816	1.0	53.6	−22.5	−44.1	49.5	242.9
315	0.375	1.0	0.0	68.9	−36.9	58.1	68.8	122.4	1.1	128	0.366	1.0	0.0	68.3	−37.7	57.4	68.7	123.2
316	0.375	1.0	0.125	69.1	−36.1	45.5	58.1	128.3	5.9	135	0.266	1.0	0.0	61.9	−46.5	49.3	67.8	133.2
317	0.375	1.0	0.25	70.0	−33.9	33.9	48.0	134.9	7.5	142	0.15	1.0	0.0	58.1	−53.6	40.8	67.4	142.7
318	0.375	1.0	0.375	71.3	−30.9	23.0	38.5	143.2	13.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
319	0.375	1.0	0.5	72.2	−28.4	12.4	31.0	156.2	12.8	159	0.0	1.0	0.183	52.9	−64.5	14.7	66.1	167.1
320	0.375	1.0	0.625	73.0	−25.2	2.2	25.3	175.0	11.2	172	0.0	1.0	0.383	54.1	−56.6	−1.8	56.6	181.9
321	0.375	1.0	0.75	74.4	−21.4	−8.1	22.9	200.6	9.5	187	0.0	1.0	0.616	55.7	−45.5	−21.3	50.3	205.1
322	0.375	1.0	0.875	75.3	−18.2	−16.2	24.4	221.6	8.0	200	0.0	1.0	0.816	57.1	−36.6	−34.3	50.2	223.1
323	0.375	1.0	1.0	76.0	−15.1	−23.0	27.6	236.7	6.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = **6.5**

1−0032230−F0 QE040−7N, Page 23/33−F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
324	R00Y_050_050d	0.5	0.0	0.0	0.5	0.5	0.25	390	0.5	0.0	0.0	32.5	31.9	20.6	38.0	32.8	0.5	0.0	0.0	34.1	34.6	23.9	42.1	34.6	4.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
325	R26Y_050_050d	0.5	0.0	0.125	0.5	0.5	0.25	376	0.5	0.0	0.116	32.7	32.5	14.8	35.7	24.5	0.5	0.0	0.125	34.5	35.7	15.9	39.1	24.0	3.8	377	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
326	R00Y_050_050d	0.5	0.0	0.25	0.5	0.5	0.25	360	0.5	0.0	0.25	32.7	33.8	7.0	34.5	11.6	0.5	0.0	0.25	34.6	38.0	6.0	38.5	8.9	4.7	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
327	B61R_050_050d	0.5	0.0	0.375	0.5	0.5	0.25	344	0.5	0.0	0.383	32.9	35.3	−0.1	35.3	359.8	0.5	0.0	0.375	34.9	40.2	−2.2	40.3	356.8	5.6	342	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
328	B50R_050_050d	0.5	0.0	0.5	0.5	0.5	0.25	330	0.5	0.0	0.5	32.9	36.4	−4.2	36.6	353.3	0.5	0.0	0.5	35.0	42.0	−7.8	42.7	349.4	6.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
329	B40R_062_062d	0.5	0.0	0.625	0.625	0.625	0.312	319	0.51	0.0	0.625	34.5	42.4	−8.3	43.2	348.8	0.5	0.0	0.625	36.5	46.7	−12.2	48.3	345.3	6.1	320	0.816	0.0	1.0	44.6	67.8	−13.3	69.1	348.8
330	B34R_075_075d	0.5	0.0	0.75	0.75	0.75	0.375	311	0.512	0.0	0.75	35.9	46.6	−14.1	48.7	343.1	0.5	0.0	0.75	37.5	50.6	−16.6	53.2	341.7	4.9	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
331	B29R_087_087d	0.5	0.0	0.875	0.875	0.875	0.437	305	0.51	0.0	0.875	37.1	50.0	−20.5	54.1	337.7	0.5	0.0	0.875	38.1	53.6	−21.9	57.9	337.7	3.9	305	0.583	0.0	1.0	39.9	57.2	−23.4	61.8	337.7
332	B25R_100_100d	0.5	0.0	1.0	1.0	1.0	0.5	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9	0.0	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
333	R23Y_050_050d	0.5	0.125	0.0	0.5	0.5	0.25	44	0.5	0.116	0.0	36.5	22.9	26.1	34.7	48.7	0.5	0.125	0.0	40.6	21.7	30.8	37.7	54.8	6.3	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
334	R00Y_050_037d	0.5	0.125	0.125	0.5	0.375	0.312	390	0.5	0.124	0.124	38.5	23.9	15.4	28.5	32.8	0.5	0.125	0.125	40.8	23.4	21.1	31.5	42.1	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
335	R18Y_050_037d	0.5	0.125	0.25	0.5	0.375	0.312	371	0.5	0.124	0.243	38.6	24.6	9.4	26.4	20.9	0.5	0.125	0.25	41.4	25.1	10.4	27.2	22.5	3.0	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
336	B65R_050_037d	0.5	0.125	0.375	0.5	0.375	0.312	349	0.5	0.124	0.381	38.8	26.1	1.5	26.1	3.2	0.5	0.125	0.375	41.9	27.5	−0.1	27.5	359.7	3.7	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
337	B50R_050_037d	0.5	0.125	0.5	0.5	0.375	0.312	330	0.5	0.124	0.5	38.8	27.3	−3.2	27.5	353.3	0.5	0.125	0.5	42.4	29.4	−6.8	30.2	346.8	5.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
338	B38R_062_050d	0.5	0.125	0.625	0.625	0.5	0.375	316	0.508	0.125	0.625	40.3	33.2	−7.2	34.0	347.6	0.5	0.125	0.625	44.1	33.5	−10.8	35.3	342.0	5.2	317	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6
339	B30R_075_062d	0.5	0.125	0.75	0.75	0.625	0.437	307	0.51	0.125	0.75	41.8	36.5	−13.8	39.1	339.2	0.5	0.125	0.75	44.3	37.8	−15.6	41.0	337.5	3.3	307	0.616	0.0	1.0	40.7	58.5	−22.1	62.5	339.2
340	B25R_087_075d	0.5	0.125	0.875	0.875	0.75	0.5	300	0.5	0.125	0.875	42.5	40.3	−19.7	44.9	333.9	0.5	0.125	0.875	43.3	41.6	−21.8	47.0	332.3	2.6	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
341	B20R_100_087d	0.5	0.125	1.0	1.0	0.875	0.562	295	0.489	0.125	1.0	42.7	43.5	−26.0	50.7	329.1	0.5	0.125	1.0	42.6	43.1	−26.7	50.7	328.1	0.8	294	0.416	0.0	1.0	35.1	49.7	−29.7	57.9	329.1
342	R50Y_050_050d	0.5	0.25	0.0	0.5	0.5	0.25	60	0.5	0.25	0.0	42.4	11.3	33.8	35.6	71.4	0.5	0.25	0.0	48.0	7.3	38.6	39.3	79.2	8.3	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
343	R31Y_050_037d	0.5	0.25	0.125	0.5	0.375	0.312	49	0.5	0.243	0.124	42.8	14.4	21.4	25.8	55.9	0.5	0.25	0.125	47.5	9.9	26.2	28.1	69.3	8.1	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
344	R00Y_050_025d	0.5	0.25	0.25	0.5	0.25	0.375	390	0.5	0.249	0.249	44.5	15.9	10.3	19.0	32.8	0.5	0.25	0.25	48.2	12.4	14.0	18.7	48.6	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
345	R00Y_050_025d	0.5	0.25	0.375	0.5	0.25	0.375	360	0.5	0.249	0.375	44.6	16.9	3.5	17.2	11.6	0.5	0.25	0.375	49.1	14.6	3.5	15.0	13.4	4.9	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
346	B50R_050_025d	0.5	0.25	0.5	0.5	0.25	0.375	330	0.5	0.249	0.5	44.7	18.2	−2.1	18.3	353.3	0.5	0.25	0.5	49.8	16.9	−5.0	17.7	343.5	5.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
347	B34R_062_037d	0.5	0.25	0.625	0.625	0.375	0.437	311	0.506	0.25	0.625	46.2	23.3	−7.0	24.3	343.1	0.5	0.25	0.625	50.9	21.5	−9.4	23.5	336.2	5.5	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
348	B25R_075_050d	0.5	0.25	0.75	0.75	0.5	0.5	300	0.5	0.25	0.75	47.2	26.9	−13.1	29.9	333.9	0.5	0.25	0.75	50.4	26.0	−14.8	29.9	330.3	3.7	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
349	B19R_087_062d	0.5	0.25	0.875	0.875	0.625	0.562	293	0.489	0.25	0.875	47.3	30.0	−19.3	35.7	327.2	0.5	0.25	0.875	50.0	29.2	−20.8	35.8	324.5	3.1	292	0.383	0.0	1.0	34.0	48.0	−30.9	57.1	327.2
350	B15R_100_075d	0.5	0.25	1.0	1.0	0.75	0.625	289	0.487	0.25	1.0	48.4	31.8	−26.5	41.4	320.2	0.5	0.25	1.0	48.4	32.1	−25.6	41.0	321.4	0.9	288	0.316	0.0	1.0	32.7	42.4	−35.3	55.3	320.2
351	R76Y_050_050d	0.5	0.375	0.0	0.5	0.5	0.25	76	0.5	0.383	0.0	48.8	0.5	41.9	41.9	89.2	0.5	0.375	0.0	53.9	−2.5	45.0	45.1	93.2	6.7	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
352	R68Y_050_037d	0.5	0.375	0.125	0.5	0.375	0.312	71	0.5	0.381	0.124	49.3	2.6	29.8	29.9	84.9	0.5	0.375	0.125	54.4	−0.6	31.7	31.7	91.2	6.3	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
353	R50Y_050_025d	0.5	0.375	0.25	0.5	0.25	0.375	60	0.5	0.375	0.249	49.5	5.6	16.9	17.8	71.4	0.5	0.375	0.25	54.9	2.1	18.2	18.3	83.1	6.6	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
354	R00Y_050_012d	0.5	0.375	0.375	0.5	0.125	0.437	390	0.5	0.375	0.375	50.5	7.9	5.1	9.5	32.8	0.5	0.375	0.375	55.9	4.8	6.8	8.3	54.9	6.4	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
355	B50R_050_012d	0.5	0.375	0.5	0.5	0.125	0.437	330	0.5	0.375	0.5	50.6	9.1	−1.0	9.1	353.3	0.5	0.375	0.5	57.0	7.5	−2.9	8.0	338.5	6.7	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
356	B25R_062_025d	0.5	0.375	0.625	0.625	0.25	0.5	300	0.5	0.375	0.625	51.9	13.4	−6.5	14.9	333.9	0.5	0.375	0.625	58.0	11.0	−7.9	13.5	324.1	6.7	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
357	B15R_075_037d	0.5	0.375	0.75	0.75	0.375	0.562	289	0.493	0.375	0.75	52.5	15.9	−13.2	20.7	320.2	0.5	0.375	0.75	56.9	15.5	−13.7	20.7	318.5	4.5	288	0.316	0.0	1.0	32.7	42.4	−35.3	55.3	320.2
358	B11R_087_050d	0.5	0.375	0.875	0.875	0.5	0.625	284	0.491	0.375	0.875	53.6	17.8	−19.8	26.6	311.9	0.5	0.375	0.875	56.7	18.9	−19.2	26.9	314.5	3.3	282	0.233	0.0	1.0	31.2	35.6	−39.6	53.3	311.9
359	B09R_100_062d	0.5	0.375	1.0	1.0	0.625	0.687	281	0.489	0.375	1.0	54.7	21.2	−25.6	33.2	309.5	0.5	0.375	1.0	54.2	23.1	−24.3	33.5	313.4	2.3	279	0.183	0.0	1.0	30.3	33.9	−41.0	53.2	309.5
360	Y00G_050_050d	0.5	0.5	0.0	0.5	0.5	0.25	90	0.5	0.5	0.0	53.0	−5.9	47.5	47.9	97.1	0.5	0.5	0.0	58.5	−9.2	49.7	50.6	100.5	6.7	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
361	Y00G_050_037d	0.5	0.5	0.125	0.5	0.375	0.312	90	0.5	0.5	0.124	53.9	−4.4	35.6	35.9	97.1	0.5	0.5	0.125	59.1	−7.8	35.8	36.6	102.3	6.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
362	Y00G_050_025d	0.5	0.5	0.25	0.5	0.25	0.375	90	0.5	0.5	0.249	54.8	−2.9	23.7	23.9	97.1	0.5	0.5	0.25	60.5	−5.7	21.7	22.4	104.8	6.6	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
363	Y00G_050_012d	0.5	0.5	0.375	0.5	0.125	0.437	90	0.5	0.5	0.375	55.7	−1.4	11.8	11.9	97.1	0.5	0.5	0.375	61.7	−3.2	9.6	10.2	108.5	6.6	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
364	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	63.4	−0.4	−0.6	0.7	235.9	6.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
365	B00R_062_012d	0.5	0.5	0.625	0.625	0.125	0.562	270	0.5	0.5	0.625	57.5	2.9	−5.9	6.6	296.4	0.5	0.5	0.625	63.4	3.0	−6.7	7.3	294.2	5.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
366	B00R_075_025d	0.5	0.5	0.75	0.75	0.25	0.625	270	0.5	0.5	0.75	58.4	5.8	−11.8	13.2	296.4	0.5	0.5	0.75	63.3	7.0	−11.7	13.6	300.9	4.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
367	B00R_087_037d	0.5	0.5	0.875	0.875	0.375	0.687	270	0.5	0.5	0.875	59.4	8.8	−17.7	19.8	296.4	0.5	0.5	0.875	63.0	9.8	−17.7	20.2	299.0	3.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
368	B00R_100_050d	0.5	0.5	1.0	1.0	0.5	0.75	270	0.5	0.5	1.0	60.4	11.7	−23.6	26.4	296.4	0.5	0.5	1.0	60.0	15.5	−22.8	27.6	304.1	3.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
369	Y18G_062_062d	0.5	0.625	0.0	0.625	0.625	0.312	101	0.51	0.625	0.0	59.4	−11.2	53.7	54.9	101.7	0.5	0.625	0.0	64.0	−14.1	56.2	57.9	104.1	5.9	99	0.816	1.0	0.0	84.5	−17.9	86.0	87.8	101.7
370	Y23G_062_050d	0.5	0.625	0.125	0.625	0.5	0.375	104	0.508	0.625	0.125	60.2	−9.6	41.8	42.9	102.9	0.5	0.625	0.125	64.4	−12.8	42.5	44.4	106.8	5.3	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
371	Y31G_062_037d	0.5	0.625	0.25	0.625	0.375	0.437	109	0.506	0.625	0.25	60.4	−8.5	29.8	31.0	106.0	0.5	0.625	0.25	65.5	−11.1	28.3	30.5	111.4	5.8	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
372	Y50G_062_025d	0.5	0.625	0.375	0.625	0.25	0.5	120	0.5	0.625	0.375	60.6	−7.8	16.5	18.2	115.3	0.5	0.625	0.375	66.3	−9.1	15.5	18.0	120.3	5.9	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
373	G00B_062_012d	0.5	0.625	0.5	0.625	0.125	0.562	150	0.5	0.625	0.5	60.8	−8.6	3.5	9.2	157.7	0.5	0.625	0.5	67.3	−6.4	4.3	7.8	146.1	6.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
374	G50B_062_012d	0.5	0.625	0.625	0.625	0.125	0.562	210	0.5	0.625	0.625	61.6	−3.6	−5.4	6.5	236.1	0.5	0.625	0.625	68.4	−3.5	−5.0	6.1	234.4	6.8	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
375	G75B_075_025d	0.5	0.625	0.75	0.75	0.25	0.625	240	0.5	0.625	0.75	62.8	−1.5	−11.2	11.3	262.3	0.5	0.625	0.75	68.8	−0.3	−10.4	10.4	268.2	6.1	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
376	G84B_087_037d	0.5	0.625	0.875	0.875	0.375	0.687	251	0.5	0.618	0.875	63.3	1.9	−17.2	17.3	276.3	0.5	0.625	0.875	67.5	3.6	−16.6	17.0	282.2	4.5	251	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276.3
377	G88B_100_050d	0.5	0.625	1.0	1.0	0.5	0.75	256	0.5	0.616	1.0	64.0	5.2	−23.1	23.7	282.8	0.5	0.625	1.0	65.6	7.1	−21.6	22.8	288.1	2.8	257	0.0	0.233	1.0	32.7	10.5	−46.2	47.4	282.8
378	Y31G_075_075d	0.5	0.75	0.0	0.75	0.75	0.375	109	0.512	0.75	0.0	64.3	−17.1	59.6	62.0	106.0	0.5	0.75	0.0	68.1	−19.0	61.9	64.8	107.0	4.8	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
379	Y38G_075_062d	0.5	0.75	0.125	0.75	0.625	0.437	113	0.51	0.75	0.125	64.3	−16.0	47.3	49.9	108.7	0.5	0.75	0.125	68.3	−18.1	47.6	50.9	110.8	4.5	112	0.616	1.0	0.0	76.8	−25.7	75.6	79.9	108.7
380	Y50G_075_050d	0.5	0.75	0.25	0.75	0.5	0.5	120	0.5	0.75	0.25	64.6	−15.6	33.0	36.5	115.3	0.5	0.75	0.25	68.9	−16.8	33.8	37.8	116.4	4.4	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
381	Y68G_075_037d	0.5	0.75	0.375	0.75	0.375	0.562	131	0.493	0.75	0.375	64.6	−15.8	20.1	25.6	128.2	0.5	0.75	0.375	69.8	−14.8	20.8	25.6	125.4	5.3	131	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128.2
382	G00B_075_025d	0.5	0.75	0.5	0.75	0.25	0.625	150	0.5	0.75	0.5	65.1	−17.2	7.0	18.5	157.7	0.5	0.75	0.5	71.1	−12.0	9.8	15.5	140.7	8.3	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
383	G25B_075_025d	0.5	0.75	0.625	0.75	0.25	0.625	180	0.5	0.75	0.625	65.8	−12.7	−3.0	13.1	193.5	0.5	0.75	0.625	71.9	−9.2	−0.1	9.2	181.1	7.6	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
384	G50B_075_025d	0.5	0.75	0.75	0.75	0.25	0.625	210	0.5	0.75	0.75	66.7	−7.3	−10.9	13.1	236.1	0.5	0.75	0.75	72.9	−6.2	−9.1	11.0	235.5	6.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
385	G65B_087_037d	0.5	0.75	0.875	0.875	0.375	0.687	229	0.5	0.756	0.875	68.5	−6.2	−16.6	17.7	249.4	0.5	0.75	0.875	73.7	−4.2	−15.2	15.8	254.3	5.7	228	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249.4
386	G75B_100_050d	0.5	0.75	1.0	1.0	0.5	0.75	240	0.5	0.75	1.0	69.1	−3.0	−22.5	22.7	262.3	0.5	0.75	1.0	70.7	0.2	−20.5	20.5	270.8	4.1	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
387	Y41G_087_087d	0.5	0.875	0.0	0.875	0.875	0.437	115	0.51	0.875	0.0	68.4	−24.0	63.8	68.2	110.6	0.5	0.875	0.0	71.6	−25.4	65.5	70.3	111.2	3.8	114	0.583	1.0	0.0	75.6	−27.5	72.9	78.0	110.6
388	Y50G_087_075d	0.5	0.875	0.125	0.875	0.75	0.5	120	0.5	0.875	0.125	68.7	−23.5	49.5	54.8	115.3	0.5	0.875	0.125	71.6	−24.9	51.1	56.8	115.9	3.5	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
389	Y61G_087_062d	0.5	0.875	0.25	0.875	0.625	0.562	127	0.489	0.875	0.25	69.3	−22.8	36.6	43.2	121.9	0.5	0.875	0.25	72.0	−23.8	38.3	45.1	121.9	3.3	127	0.383	1.0	0.0	69.1	−36.5	58.6	69.1	121.9
390	Y76G_087_050d	0.5	0.875	0.375	0.875	0.5	0.625	136	0.491	0.875	0.375	68.2	−24.4	23.3	33.8	136.2	0.5	0.875	0.375	73.1	−21.3	25.4	33.2	129.9	6.1	137	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2
391	G00B_087_037d	0.5	0.875	0.5	0.875	0.375	0.687	150	0.5	0.875	0.5	69.4	−25.8	10.5	27.8	157.7	0.5	0.875	0.5	74.4	−18.4	13.7	23.0	143.3	9.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
392	G15B_087_037d	0.5	0.875	0.625	0.875	0.375	0.687	169	0.5	0.875	0.618	70.0	−22.3	1.4	22.3	176.3	0.5	0.875	0.625	75.3	−15.8	3.8	16.3	166.3	8.6	168	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176.3
393	G34B_087_037d	0.5	0.875	0.75	0.875	0.375	0.687	191	0.5	0.875	0.756	71.0	−15.9	−9.8	18.7	211.7	0.5	0.875	0.75	76.7	−12.5	−6.1	13.9	206.1	7.5	191	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211.7
394	G50B_087_037d	0.5	0.875	0.875	0.875	0.375	0.687	210	0.5	0.875	0.875	71.8	−10.9	−16.4	19.7	236.1	0.5	0.875	0.875	77.3	−9.5	−14.2	17.1	236.0	6.1	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
395	G61B_100_050d	0.5	0.875	1.0	1.0	0.5	0.75	224	0.5	0.883	1.0	73.8	−10.2	−22.0	24.3	245.1	0.5	0.875	1.0	76.5	−6.8	−19.4	20.6	250.5	5.0	222	0.0	0.766	1.0	52.2	−20.4	−44.1	48.6	245.1
396	Y50G_100_100d	0.5	1.0	0.0	1.0	1.0	0.5	120	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3	0.0	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
397	Y58G_100_087d	0.5	1.0	0.125	1.0	0.875	0.562	125	0.489	1.0	0.125	73.3	−30.8	53.2	61.4	120.0	0.5	1.0	0.125	73.1	−30.7	53.1	61.4	120.0	0.2	125	0.416	1.0	0.0	70.2	−35.2	60.8	70.2	120.0
398	Y68G_100_075d	0.5	1.0	0.25	1.0	0.75	0.625	131	0.487	1.0	0.25	72.7	−31.7	40.2	51.2	128.2	0.5	1.0	0.25	73.6	−29.3	40.7	50.1	125.7	2.6	131	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128.2
399	Y81G_100_062d	0.5	1.0	0.375	1.0	0.625	0.687	139	0.489	1.0	0.375	72.6	−32.3	27.0	42.1	140.1	0.5	1.0	0.375	74.6	−27.1	29.6	40.1	132.5	6.1	140	0.183	1.0	0.0	59.0	−51.8	43.2	67.4	140.1
400	G00B_100_050d	0.5	1.0	0.5	1.0	0.5	0.75	150	0.5	1.0	0.5	73.7	−34.4	14.0	37.1	157.7	0.5	1.0	0.5	76.0	−24.2	18.2	30.3	142.9	11.2	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
401	G11B_100_050d	0.5	1.0	0.625	1.0	0.5	0.75	164	0.5	1.0	0.616	74.3	−31.3	5.5	31.8	170.0	0.5	1.0	0.625	77.1	−21.4	7.9	22.8	159.7	10.5	162	0.0	1.0	0.233	53.2	−62.6	11.0	63.6	170.0
402	G25B_100_050d	0.5	1.0	0.75	1.0	0.5	0.75	180	0.5	1.0	0.75	75.1	−25.5	−6.1	26.2	193.5	0.5	1.0	0.75	78.1	−18.4	−2.0	18.5	186.2	8.7	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
403	G38B_100_050d	0.5	1.0	0.875	1.0	0.5	0.75	196	0.5	1.0	0.883	76.1	−19.2	−15.8	24.9	219.6	0.5	1.0	0.875	79.4	−15.1	−10.7	18.5	215.2	7.3	197	0.0	1.0	0.766	56.8	−38.4	−31.7	49.8	219.6
404	G50B_100_050d	0.5	1.0	1.0	1.0	0.5	0.75	210	0.5	1.0	1.0	76.9	−14.6	−21.8	26.3	236.1	0.5	1.0	1.0	80.2	−12.0	−18.3	21.9	236.6	5.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1

Mean color difference of this page: delta E*' = 5.3

1-0032330-F0

QE040−7N, Page 24/33−F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

QE0400L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/33

n	HIC*Fd	*rgb*_Fd			*ict*_Fd			$h_{si\_F,d}$	*rgb**Fd			*LabCh**Fd				
405	R00Y_062_062d	0.625	0.0	0.0	0.625	0.625	0.312	390	0.625	0.0	0.0	36.2	39.9	25.7	47.5	32.8
406	R31Y_062_062d	0.625	0.0	0.125	0.625	0.625	0.312	379	0.625	0.0	0.114	36.3	40.5	20.1	45.2	26.4
407	R11Y_062_062d	0.625	0.0	0.25	0.625	0.625	0.312	367	0.625	0.0	0.239	36.5	41.4	13.3	43.5	17.8
408	B69R_062_062d	0.625	0.0	0.375	0.625	0.625	0.312	353	0.625	0.0	0.385	36.6	43.0	4.7	43.3	6.2
409	B59R_062_062d	0.625	0.0	0.5	0.625	0.625	0.312	341	0.625	0.0	0.51	36.7	44.4	−1.3	44.4	358.3
410	B50R_062_062d	0.625	0.0	0.625	0.625	0.625	0.312	330	0.625	0.0	0.625	36.8	45.5	−5.3	45.8	353.3
411	B42R_075_075d	0.625	0.0	0.75	0.75	0.75	0.375	321	0.637	0.0	0.75	38.4	51.6	−9.4	52.4	349.6
412	B36R_087_087d	0.625	0.0	0.875	0.875	0.875	0.437	314	0.641	0.0	0.875	39.7	56.9	−13.9	58.6	346.2
413	B31R_100_100d	0.625	0.0	1.0	1.0	1.0	0.5	308	0.633	0.0	1.0	41.1	59.3	−21.4	63.0	340.1
414	R18Y_062_062d	0.625	0.125	0.0	0.625	0.625	0.312	41	0.625	0.114	0.0	40.0	31.3	31.2	44.2	44.9
415	R00Y_062_050d	0.625	0.125	0.125	0.625	0.5	0.375	390	0.625	0.125	0.125	42.2	31.9	20.6	38.0	32.8
416	R26Y_062_050d	0.625	0.125	0.25	0.625	0.5	0.375	376	0.625	0.125	0.241	42.4	32.5	14.8	35.7	24.5
417	R00Y_062_050d	0.625	0.125	0.375	0.625	0.5	0.375	360	0.625	0.125	0.375	42.4	33.8	7.0	34.5	11.6
418	B61R_062_050d	0.625	0.125	0.5	0.625	0.5	0.375	344	0.625	0.125	0.508	42.6	35.3	−0.1	35.3	359.8
419	B50R_062_050d	0.625	0.125	0.625	0.625	0.5	0.375	330	0.625	0.125	0.625	42.7	36.4	−4.2	36.6	353.3
420	B40R_075_062d	0.625	0.125	0.75	0.75	0.625	0.437	319	0.635	0.125	0.75	44.2	42.4	−8.3	43.2	348.8
421	B34R_087_075d	0.625	0.125	0.875	0.875	0.75	0.5	311	0.637	0.125	0.875	45.6	46.6	−14.1	48.7	343.1
422	B29R_100_087d	0.625	0.125	1.0	1.0	0.875	0.562	305	0.635	0.125	1.0	46.9	50.0	−20.5	54.1	337.7
423	R38Y_062_062d	0.625	0.25	0.0	0.625	0.625	0.312	53	0.625	0.239	0.0	45.2	20.3	38.0	43.1	61.8
424	R23Y_062_050d	0.625	0.25	0.125	0.625	0.5	0.375	44	0.625	0.241	0.125	46.2	22.9	26.1	34.7	48.7
425	R00Y_062_037d	0.625	0.25	0.25	0.625	0.375	0.437	390	0.625	0.25	0.25	48.2	23.9	15.4	28.5	32.8
426	R18Y_062_037d	0.625	0.25	0.375	0.625	0.375	0.437	371	0.625	0.25	0.368	48.4	24.6	9.4	26.4	20.9
427	B65R_062_037d	0.625	0.25	0.5	0.625	0.375	0.437	349	0.625	0.25	0.506	48.5	26.1	1.5	26.1	3.2
428	B50R_062_037d	0.625	0.25	0.625	0.625	0.375	0.437	330	0.625	0.25	0.625	48.6	27.3	−3.2	27.5	353.3
429	B38R_075_050d	0.625	0.25	0.75	0.75	0.5	0.5	316	0.633	0.25	0.75	50.0	33.2	−7.2	34.0	347.6
430	B30R_087_062d	0.625	0.25	0.875	0.875	0.625	0.562	307	0.635	0.25	0.875	51.5	36.5	−13.8	39.1	339.2
431	B25R_100_075d	0.625	0.25	1.0	1.0	0.75	0.625	300	0.625	0.25	1.0	52.2	40.3	−19.7	44.9	333.9
432	R61Y_062_062d	0.625	0.375	0.0	0.625	0.625	0.312	67	0.625	0.385	0.0	52.3	7.4	47.2	47.8	81.0
433	R50Y_062_050d	0.625	0.375	0.125	0.625	0.5	0.375	60	0.625	0.375	0.125	52.1	11.3	33.8	35.6	71.4
434	R31Y_062_037d	0.625	0.375	0.25	0.625	0.375	0.437	49	0.625	0.368	0.25	52.6	14.4	21.4	25.8	55.9
435	R00Y_062_025d	0.625	0.375	0.375	0.625	0.25	0.5	390	0.625	0.375	0.375	54.2	15.9	10.3	19.0	32.8
436	R00Y_062_025d	0.625	0.375	0.5	0.625	0.25	0.5	360	0.625	0.375	0.5	54.3	16.9	3.5	17.2	11.6
437	B50R_062_025d	0.625	0.375	0.625	0.625	0.25	0.5	330	0.625	0.375	0.625	54.5	18.2	−2.1	18.3	353.3
438	B34R_075_037d	0.625	0.375	0.75	0.75	0.375	0.562	311	0.631	0.375	0.75	55.9	23.3	−7.0	24.3	343.1
439	B25R_087_050d	0.625	0.375	0.875	0.875	0.5	0.625	300	0.625	0.375	0.875	56.9	26.9	−13.1	29.9	333.9
440	B19R_100_062d	0.625	0.375	1.0	1.0	0.625	0.687	293	0.614	0.375	1.0	57.1	30.0	−19.3	35.7	327.2
441	R81Y_062_062d	0.625	0.5	0.0	0.625	0.625	0.312	79	0.625	0.51	0.0	57.8	−1.2	54.1	54.1	91.2
442	R76Y_062_050d	0.625	0.5	0.125	0.625	0.5	0.375	76	0.625	0.508	0.125	58.5	0.5	41.9	41.9	89.2
443	R68Y_062_037d	0.625	0.5	0.25	0.625	0.375	0.437	71	0.625	0.506	0.25	59.1	2.6	29.8	29.9	84.9
444	R50Y_062_025d	0.625	0.5	0.375	0.625	0.25	0.5	60	0.625	0.5	0.375	59.2	5.6	16.9	17.8	71.4
445	R00Y_062_012d	0.625	0.5	0.5	0.625	0.125	0.562	390	0.625	0.5	0.5	60.2	7.9	5.1	9.5	32.8
446	B50R_062_012d	0.625	0.5	0.625	0.625	0.125	0.562	330	0.625	0.5	0.625	60.4	9.1	−1.0	9.1	353.3
447	B25R_075_025d	0.625	0.5	0.75	0.75	0.25	0.625	300	0.625	0.5	0.75	61.6	13.4	−6.5	14.9	333.9
448	B15R_087_037d	0.625	0.5	0.875	0.875	0.375	0.687	289	0.618	0.5	0.875	62.2	15.9	−13.2	20.7	320.2
449	B11R_100_050d	0.625	0.5	1.0	1.0	0.5	0.75	284	0.616	0.5	1.0	63.3	17.8	−19.8	26.6	311.9
450	Y00G_062_062d	0.625	0.625	0.0	0.625	0.625	0.312	90	0.625	0.625	0.0	61.8	−7.4	59.4	59.9	97.1
451	Y00G_062_050d	0.625	0.625	0.125	0.625	0.5	0.375	90	0.625	0.625	0.125	62.7	−5.9	47.5	47.9	97.1
452	Y00G_062_037d	0.625	0.625	0.25	0.625	0.375	0.437	90	0.625	0.625	0.25	63.6	−4.4	35.6	35.9	97.1
453	Y00G_062_025d	0.625	0.625	0.375	0.625	0.25	0.5	90	0.625	0.625	0.375	64.5	−2.9	23.7	23.9	97.1
454	Y00G_062_012d	0.625	0.625	0.5	0.625	0.125	0.562	90	0.625	0.625	0.5	65.4	−1.4	11.8	11.9	97.1
455	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0
456	B00R_075_012d	0.625	0.625	0.75	0.75	0.125	0.687	270	0.625	0.625	0.75	67.2	2.9	−5.9	6.6	296.4
457	B00R_087_025d	0.625	0.625	0.875	0.875	0.25	0.75	270	0.625	0.625	0.875	68.2	5.8	−11.8	13.2	296.4
458	B00R_100_037d	0.625	0.625	1.0	1.0	0.375	0.812	270	0.625	0.625	1.0	69.1	8.8	−17.7	19.8	296.4
459	Y15G_075_075d	0.625	0.75	0.0	0.75	0.75	0.375	99	0.637	0.75	0.0	68.3	−12.7	65.6	66.8	100.9
460	Y18G_075_062d	0.625	0.75	0.125	0.75	0.625	0.437	101	0.635	0.75	0.125	69.1	−11.2	53.7	54.9	101.7
461	Y23G_075_050d	0.625	0.75	0.25	0.75	0.5	0.5	104	0.633	0.75	0.25	69.9	−9.6	41.8	42.9	102.9
462	Y31G_075_037d	0.625	0.75	0.375	0.75	0.375	0.562	109	0.631	0.75	0.375	70.1	−8.5	29.8	31.0	106.0
463	Y50G_075_025d	0.625	0.75	0.5	0.75	0.25	0.625	120	0.625	0.75	0.5	70.3	−7.8	16.5	18.2	115.3
464	G00B_075_012d	0.625	0.75	0.625	0.75	0.125	0.687	150	0.625	0.75	0.625	70.5	−8.6	3.5	9.2	157.7
465	G50B_075_012d	0.625	0.75	0.75	0.75	0.125	0.687	210	0.625	0.75	0.75	71.3	−3.6	−5.4	6.5	236.1
466	G75B_087_025d	0.625	0.75	0.875	0.875	0.25	0.75	240	0.625	0.75	0.875	72.5	−1.5	−11.2	11.3	262.3
467	G84B_100_037d	0.625	0.75	1.0	1.0	0.375	0.812	251	0.625	0.743	1.0	73.0	1.9	−17.2	17.3	276.3
468	Y26G_087_087d	0.625	0.875	0.0	0.875	0.875	0.437	106	0.641	0.875	0.0	74.1	−17.9	71.8	74.0	104.0
469	Y31G_087_075d	0.625	0.875	0.125	0.875	0.75	0.5	109	0.637	0.875	0.125	74.0	−17.1	59.6	62.0	106.0
470	Y38G_087_062d	0.625	0.875	0.25	0.875	0.625	0.562	113	0.635	0.875	0.25	74.0	−16.0	47.3	49.9	108.7
471	Y50G_087_050d	0.625	0.875	0.375	0.875	0.5	0.625	120	0.625	0.875	0.375	74.4	−15.6	33.0	36.5	115.3
472	Y68G_087_037d	0.625	0.875	0.5	0.875	0.375	0.687	131	0.618	0.875	0.5	74.3	−15.8	20.1	25.6	128.2
473	G00B_087_025d	0.625	0.875	0.625	0.875	0.25	0.75	150	0.625	0.875	0.625	74.8	−17.2	7.0	18.5	157.7
474	G25B_087_025d	0.625	0.875	0.75	0.875	0.25	0.75	180	0.625	0.875	0.75	75.5	−12.7	−3.0	13.1	193.5
475	G50B_087_025d	0.625	0.875	0.875	0.875	0.25	0.75	210	0.625	0.875	0.875	76.4	−7.3	−10.9	13.1	236.1
476	G65B_100_037d	0.625	0.875	1.0	1.0	0.375	0.812	229	0.625	0.881	1.0	78.2	−6.2	−16.6	17.7	249.4
477	Y36G_100_100d	0.625	1.0	0.0	1.0	1.0	0.5	112	0.633	1.0	0.0	77.4	−24.9	76.8	80.7	107.9
478	Y41G_100_087d	0.625	1.0	0.125	1.0	0.875	0.562	115	0.635	1.0	0.125	78.1	−24.0	63.8	68.2	110.6
479	Y50G_100_075d	0.625	1.0	0.25	1.0	0.75	0.625	120	0.625	1.0	0.25	78.4	−23.5	49.5	54.8	115.3
480	Y61G_100_062d	0.625	1.0	0.375	1.0	0.625	0.687	127	0.614	1.0	0.375	79.0	−22.8	36.6	43.2	121.9
481	Y76G_100_050d	0.625	1.0	0.5	1.0	0.5	0.75	136	0.616	1.0	0.5	77.9	−24.4	23.3	33.8	136.2
482	G00B_100_037d	0.625	1.0	0.625	1.0	0.375	0.812	150	0.625	1.0	0.625	79.1	−25.8	10.5	27.8	157.7
483	G15B_100_037d	0.625	1.0	0.75	1.0	0.375	0.812	169	0.625	1.0	0.743	79.8	−22.3	1.4	22.3	176.3
484	G34B_100_037d	0.625	1.0	0.875	1.0	0.375	0.812	191	0.625	1.0	0.881	80.7	−15.9	−9.8	18.7	211.7
485	G50B_100_037d	0.625	1.0	1.0	1.0	0.375	0.812	210	0.625	1.0	1.0	81.5	−10.9	−16.4	19.7	236.1

n	*rgb**'Fd			*LabCh**'Fd					*DE**'Fd	$h_{siM,d}$	*rgb**Md			*LabCh**Md				
405	0.625	0.0	0.0	37.4	42.1	28.4	50.8	34.0	3.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
406	0.625	0.0	0.125	37.5	43.0	21.4	48.0	26.4	3.0	380	1.0	0.0	0.183	47.5	64.8	32.2	72.4	26.4
407	0.625	0.0	0.25	37.7	44.8	12.8	46.6	15.9	3.6	367	1.0	0.0	0.383	47.7	66.3	21.3	69.6	17.8
408	0.625	0.0	0.375	37.8	46.7	3.8	46.9	4.6	4.0	352	1.0	0.0	0.616	48.0	68.8	7.5	69.2	6.2
409	0.625	0.0	0.5	38.2	48.9	−3.5	49.0	355.8	5.1	339	1.0	0.0	0.816	48.2	71.1	−2.1	71.1	358.3
410	0.625	0.0	0.625	38.6	50.3	−8.7	51.0	350.0	6.1	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
411	0.625	0.0	0.75	40.0	54.5	−12.6	56.0	346.9	4.6	322	0.85	0.0	1.0	45.3	68.8	−12.5	69.9	349.6
412	0.625	0.0	0.875	41.2	58.5	−16.8	60.8	343.9	3.6	315	0.733	0.0	1.0	42.8	65.0	−15.9	66.9	346.2
413	0.625	0.0	1.0	40.9	58.8	−21.8	62.7	339.6	0.6	308	0.633	0.0	1.0	41.1	59.3	−21.4	63.0	340.1
414	0.625	0.125	0.0	43.4	29.6	35.4	46.2	50.0	5.6	39	1.0	0.183	0.0	53.4	50.1	49.9	70.7	44.9
415	0.625	0.125	0.125	44.0	30.5	26.8	40.6	41.3	6.6	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
416	0.625	0.125	0.25	44.0	31.9	17.0	36.2	28.1	2.7	377	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
417	0.625	0.125	0.375	44.8	33.4	6.9	34.1	11.8	2.4	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
418	0.625	0.125	0.5	45.4	35.6	−1.6	35.7	357.2	3.1	342	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
419	0.625	0.125	0.625	45.8	37.2	−7.9	38.0	347.9	4.8	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
420	0.625	0.125	0.75	46.7	41.7	−11.8	43.3	344.1	4.3	320	0.816	0.0	1.0	44.6	67.8	−13.3	69.1	348.8
421	0.625	0.125	0.875	47.2	46.9	−16.5	49.7	340.6	2.8	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
422	0.625	0.125	1.0	46.3	48.9	−21.3	53.3	336.4	1.4	305	0.583	0.0	1.0	39.9	57.2	−23.4	61.8	337.7
423	0.625	0.25	0.0	50.0	17.0	43.0	46.3	68.3	7.6	52	1.0	0.383	0.0	61.8	32.5	60.8	69.0	61.8
424	0.625	0.25	0.125	50.0	18.4	32.1	37.0	60.1	8.3	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
425	0.625	0.25	0.25	50.8	19.6	20.9	28.7	46.8	7.4	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
426	0.625	0.25	0.375	51.7	21.2	11.0	23.9	27.5	5.0	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
427	0.625	0.25	0.5	52.2	23.6	0.8	23.6	2.0	4.5	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
428	0.625	0.25	0.625	53.2	25.5	−6.3	26.3	346.0	5.8	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
429	0.625	0.25	0.75	53.3	30.4	−10.7	32.2	340.6	5.4	317	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6
430	0.625	0.25	0.875	53.5	34.9	−15.5	38.2	335.9	3.1	307	0.616	0.0	1.0	40.7	58.5	−22.1	62.5	339.2
431	0.625	0.25	1.0	52.2	37.2	−20.6	42.5	330.9	3.3	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
432	0.625	0.375	0.0	57.0	4.6	50.8	51.0	84.7	6.4	67	1.0	0.616	0.0	73.2	11.8	75.6	76.6	81.0
433	0.625	0.375	0.125	57.0	6.7	38.1	38.7	79.9	7.9	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
434	0.625	0.375	0.25	57.3	8.9	25.6	27.1	70.8	8.4	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
435	0.625	0.375	0.375	58.4	10.5	14.5	17.9	54.0	8.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
436	0.625	0.375	0.5	59.3	12.7	4.1	13.4	18.1	6.5	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
437	0.625	0.375	0.625	60.3	15.0	−4.4	15.7	343.4	7.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
438	0.625	0.375	0.75	59.8	19.9	−9.4	22.0	334.5	5.7	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
439	0.625	0.375	0.875	60.1	23.7	−14.4	27.8	328.5	4.6	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
440	0.625	0.375	1.0	57.3	27.1	−20.3	33.9	323.1	3.0	292	0.383	0.0	1.0	34.0	48.0	−30.9	57.1	327.2
441	0.625	0.5	0.0	62.6	−3.9	56.8	56.9	94.0	6.1	80	1.0	0.816	0.0	81.9	−1.9	86.5	86.5	91.2
442	0.625	0.5	0.125	63.1	−2.5	43.7	43.8	93.3	5.8	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
443	0.625	0.5	0.25	63.9	−0.7	30.2	30.2	91.3	5.9	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
444	0.625	0.5	0.375	64.8	1.6	17.9	17.9	84.7	6.9	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
445	0.625	0.5	0.5	65.8	4.2	6.6	7.9	57.4	6.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
446	0.625	0.5	0.625	66.4	6.8	−2.7	7.3	338.3	6.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
447	0.625	0.5	0.75	66.5	10.6	−7.9	13.2	323.2	5.8	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
448	0.625	0.5	0.875	66.2	14.2	−13.3	19.5	316.8	4.3	288	0.316	0.0	1.0	32.7	42.4	−35.3	55.3	320.2
449	0.625	0.5	1.0	62.9	19.2	−19.0	27.0	315.2	1.6	282	0.233	0.0	1.0	31.2	35.6	−39.6	53.3	311.9
450	0.625	0.625	0.0	66.7	−10.2	62.3	63.1	99.2	6.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
451	0.625	0.625	0.125	67.7	−9.2	48.5	49.4	100.7	6.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
452	0.625	0.625	0.25	68.8	−7.5	34.1	34.9	102.5	6.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
453	0.625	0.625	0.375	69.7	−5.4	20.9	21.6	104.5	6.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
454	0.625	0.625	0.5	71.2	−3.0	9.5	9.9	107.6	6.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
455	0.625	0.625	0.625	72.2	−0.3	−0.4	0.5	236.5	5.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
456	0.625	0.625	0.75	72.1	2.8	−6.3	7.0	294.3	4.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
457	0.625	0.625	0.875	71.5	7.4	−11.9	14.0	301.8	3.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
458	0.625	0.625	1.0	69.1	10.5	−17.4	20.4	301.2	1.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
459	0.625	0.75	0.0	71.1	−14.9	68.3	69.9	102.3	4.4	97	0.85	1.0	0.0	85.2	−16.9	87.4	89.1	100.9
460	0.625	0.75	0.125	71.9	−14.0	54.1	55.9	104.5	4.0	99	0.816	1.0	0.0	84.5	−17.9	86.0	87.8	101.7
461	0.625	0.75	0.25	73.1	−12.7	41.1	43.0	107.1	4.4	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
462	0.625	0.75	0.375	74.0	−11.0	27.6	29.7	111.7	5.0	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
463	0.625	0.75	0.5	74.4	−8.8	15.2	17.6	120.1	4.3	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
464	0.625	0.75	0.625	75.8	−6.1	4.7	7.7	142.4	5.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
465	0.625	0.75	0.75	76.8	−3.3	−4.6	5.7	233.9	5.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
466	0.625	0.75	0.875	77.2	−0.2	−10.5	10.5	268.8	4.9	240	0.0	0.5	1.0	42.7	−6.0	−45.0	45.4	262.3
467	0.625	0.75	1.0	74.1	4.3	−16.2	16.7	284.9	2.8	251	0.0	0.316	1.0	35.7	5.1	−45.8	46.1	276.3
468	0.625	0.875	0.0	75.7	−19.8	74.1	76.7	104.9	3.3	104	0.733	1.0	0.0	82.2	−20.5	82.1	84.6	104.0
469	0.625	0.875	0.125	76.4	−19.0	60.5	63.5	107.4	3.2	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
470	0.625	0.875	0.25	77.1	−18.1	48.0	51.4	110.6	3.7	112	0.616	1.0	0.0	76.8	−25.7	75.6	79.9	108.7
471	0.625	0.875	0.375	77.4	−16.7	33.6	37.6	116.5	3.3	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
472	0.625	0.875	0.5	78.2	−14.7	20.5	25.2	125.7	4.0	131	0.316	1.0	0.0	65.1	−42.3	53.6	68.2	128.2
473	0.625	0.875	0.625	79.8	−11.8	10.2	15.6	139.0	8.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
474	0.625	0.875	0.75	81.1	−9.0	0.1	9.0	179.1	7.4	180	0.0	1.0	0.5	54.8	−51.0	−12.3	52.5	193.5
475	0.625	0.875	0.875	81.8	−6.1	−8.9	10.8	235.4	5.8	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
476	0.625	0.875	1.0	79.9	−3.4	−14.8	15.2	256.9	3.7	228	0.0	0.683	1.0	49.6	−16.6	−44.3	47.4	249.4
477	0.625	1.0	0.0	77.0	−25.2	76.3	80.4	108.3	0.6	111	0.633	1.0	0.0	77.4	−24.9	76.8	80.7	107.9
478	0.625	1.0	0.125	78.0	−24.2	63.8	68.2	110.7	0.1	114	0.583	1.0	0.0	75.6	−27.5	72.9	78.0	110.6
479	0.625	1.0	0.25	78.2	−23.6	50.6	55.8	115.0	1.0	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
480	0.625	1.0	0.375	78.4	−22.7	37.4	43.8	121.2	1.0	127	0.383	1.0	0.0	69.1	−36.5	58.6	69.1	121.9
481	0.625	1.0	0.5	79.5	−20.6	25.6	32.9	128.7	4.7	137	0.233	1.0	0.0	60.4	−48.8	46.7	67.6	136.2
482	0.625	1.0	0.625	81.0	−17.6	14.7	22.9	140.1	9.3	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
483	0.625	1.0	0.75	82.3	−14.7	4.7	15.4	162.0	8.6	168	0.0	1.0	0.316	53.7	−59.5	3.7	59.6	176.3
484	0.625	1.0	0.875	83.1	−11.9	−5.2	13.0	203.7	6.5	191	0.0	1.0	0.683	56.2	−42.4	−26.3	49.9	211.7
485	0.625	1.0	1.0	84.2	−8.8	−13.3	16.0	236.5	4.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = *4.9*

1-0032430-F0

QE040-7N, Page 25/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

1-0032430-F0

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 26/33

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
486	R00Y_075_075d	0.75	0.0	0.0	0.75	0.75	0.375	390	0.75	0.0	0.0	39.9	47.9	30.9	57.0	32.8	0.75	0.0	0.0	40.4	50.6	32.9	60.4	33.0	3.4	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
487	R35Y_075_075d	0.75	0.0	0.125	0.75	0.75	0.375	381	0.75	0.0	0.112	40.0	48.4	25.4	54.7	27.6	0.75	0.0	0.125	40.6	51.4	27.1	58.1	27.8	3.4	382	1.0	0.0	0.15	47.5	64.6	33.9	72.9	27.6
488	R18Y_075_075d	0.75	0.0	0.25	0.75	0.75	0.375	371	0.75	0.0	0.237	40.2	49.3	18.8	52.8	20.9	0.75	0.0	0.25	40.9	52.7	19.3	56.1	20.1	3.5	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
489	R00Y_075_075d	0.75	0.0	0.375	0.75	0.75	0.375	360	0.75	0.0	0.375	40.2	50.7	10.5	51.8	11.6	0.75	0.0	0.375	40.9	54.2	10.0	55.1	10.4	3.5	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
490	B65R_075_075d	0.75	0.0	0.5	0.75	0.75	0.375	349	0.75	0.0	0.512	40.5	52.3	3.0	52.3	3.2	0.75	0.0	0.5	40.9	56.3	2.3	56.4	2.3	4.1	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
491	B57R_075_075d	0.75	0.0	0.625	0.75	0.75	0.375	339	0.75	0.0	0.637	40.6	53.5	-2.5	53.6	357.2	0.75	0.0	0.625	41.1	58.0	-3.7	58.1	356.3	4.6	337	1.0	0.0	0.85	48.2	71.4	-3.3	71.5	357.2
492	B50R_075_075d	0.75	0.0	0.75	0.75	0.75	0.375	330	0.75	0.0	0.75	40.6	54.6	-6.4	55.0	353.3	0.75	0.0	0.75	41.3	59.1	-8.4	59.7	351.8	5.0	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
493	B43R_087_087d	0.75	0.0	0.875	0.875	0.875	0.437	322	0.758	0.0	0.875	42.2	60.6	-10.6	61.5	350.0	0.75	0.0	0.875	42.8	63.9	-11.5	65.0	349.7	3.5	322	0.866	0.0	1.0	45.7	69.2	-12.1	70.3	350.0
494	B38R_100_100d	0.75	0.0	1.0	1.0	1.0	0.5	316	0.766	0.0	1.0	43.5	66.4	-14.5	68.0	347.6	0.75	0.0	1.0	43.1	65.9	-14.9	67.6	347.2	0.7	317	0.766	0.0	1.0	43.5	66.4	-14.5	68.0	347.6
495	R15Y_075_075d	0.75	0.125	0.0	0.75	0.75	0.375	39	0.75	0.112	0.0	43.5	39.6	36.1	53.6	42.3	0.75	0.125	0.0	44.9	40.4	38.4	55.7	43.5	2.7	37	1.0	0.15	0.0	52.1	52.8	48.1	71.5	42.3
496	R00Y_075_062d	0.75	0.125	0.125	0.75	0.625	0.437	390	0.75	0.125	0.125	45.9	39.9	25.7	47.5	32.8	0.75	0.125	0.125	45.6	40.2	30.5	50.5	37.2	4.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
497	R31Y_075_062d	0.75	0.125	0.25	0.75	0.625	0.437	379	0.75	0.125	0.239	46.1	40.5	20.1	45.2	26.4	0.75	0.125	0.25	46.0	41.0	22.5	46.8	28.8	2.4	380	1.0	0.0	0.183	47.5	64.8	32.2	72.4	26.4
498	R11Y_075_062d	0.75	0.125	0.375	0.75	0.625	0.437	367	0.75	0.125	0.364	46.2	41.4	13.3	43.5	17.8	0.75	0.125	0.375	46.6	42.1	13.1	44.1	17.2	0.8	367	1.0	0.0	0.383	47.7	66.3	21.3	69.6	17.8
499	B69R_075_062d	0.75	0.125	0.5	0.75	0.625	0.437	353	0.75	0.125	0.51	46.3	43.0	4.7	43.3	6.2	0.75	0.125	0.5	46.8	44.1	3.8	44.3	4.9	1.5	352	1.0	0.0	0.616	48.0	68.8	7.5	69.2	6.2
500	B59R_075_062d	0.75	0.125	0.625	0.75	0.625	0.437	341	0.75	0.125	0.635	46.5	44.4	-1.3	44.4	358.3	0.75	0.125	0.625	47.2	45.4	-2.7	45.5	356.5	1.8	339	1.0	0.0	0.816	48.2	71.1	-2.1	71.1	358.3
501	B50R_075_062d	0.75	0.125	0.75	0.75	0.625	0.437	330	0.75	0.125	0.75	46.5	45.5	-5.3	45.8	353.3	0.75	0.125	0.75	47.4	47.2	-8.2	48.0	350.0	3.5	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
502	B42R_087_075d	0.75	0.125	0.875	0.875	0.75	0.5	321	0.762	0.125	0.875	48.1	51.6	-9.4	52.4	349.6	0.75	0.125	0.875	48.7	52.7	-11.6	53.9	347.4	2.5	322	0.85	0.0	1.0	45.3	68.8	-12.5	69.9	349.6
503	B36R_100_087d	0.75	0.125	1.0	1.0	0.875	0.562	314	0.766	0.125	1.0	49.4	56.9	-13.9	58.6	346.2	0.75	0.125	1.0	48.3	56.0	-15.3	58.1	344.6	2.0	315	0.733	0.0	1.0	42.8	65.0	-15.9	66.9	346.2
504	R31Y_075_075d	0.75	0.25	0.0	0.75	0.75	0.375	49	0.75	0.237	0.0	48.6	28.9	42.8	51.7	55.9	0.75	0.25	0.0	51.3	28.1	45.6	53.6	58.2	3.9	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
505	R18Y_075_062d	0.75	0.25	0.125	0.75	0.625	0.437	41	0.75	0.239	0.125	49.7	31.3	31.2	44.2	44.9	0.75	0.25	0.125	51.9	29.1	35.7	46.1	50.8	5.4	39	1.0	0.183	0.0	53.4	50.1	49.9	70.7	44.9
506	R00Y_075_050d	0.75	0.25	0.25	0.75	0.5	0.5	390	0.75	0.25	0.25	51.9	31.9	20.6	38.0	32.8	0.75	0.25	0.25	53.0	29.2	26.0	39.1	41.6	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
507	R26Y_075_050d	0.75	0.25	0.375	0.75	0.5	0.5	376	0.75	0.25	0.366	52.1	32.5	14.8	35.7	24.5	0.75	0.25	0.375	53.5	30.4	16.3	34.5	28.3	2.9	377	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
508	R00Y_075_050d	0.75	0.25	0.5	0.75	0.5	0.5	360	0.75	0.25	0.5	52.1	33.8	7.0	34.5	11.6	0.75	0.25	0.5	54.1	32.4	6.8	33.1	11.9	2.3	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
509	B61R_075_050d	0.75	0.25	0.625	0.75	0.5	0.5	344	0.75	0.25	0.633	52.3	35.3	-0.1	35.3	359.8	0.75	0.25	0.625	54.9	33.8	-1.0	33.8	358.2	3.1	342	1.0	0.0	0.766	48.1	70.6	-0.2	70.6	359.8
510	B50R_075_050d	0.75	0.25	0.75	0.75	0.5	0.5	330	0.75	0.25	0.75	52.4	36.4	-4.2	36.6	353.3	0.75	0.25	0.75	55.1	35.4	-7.4	36.2	348.1	4.3	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
511	B40R_087_062d	0.75	0.25	0.875	0.875	0.625	0.562	319	0.76	0.25	0.875	53.9	42.4	-8.3	43.2	348.8	0.75	0.25	0.875	56.1	40.5	-11.0	42.0	344.7	3.9	320	0.816	0.0	1.0	44.6	67.8	-13.3	69.1	348.8
512	B34R_100_075d	0.75	0.25	1.0	1.0	0.75	0.625	311	0.762	0.25	1.0	55.3	46.6	-14.1	48.7	343.1	0.75	0.25	1.0	55.1	43.9	-14.7	46.3	341.4	2.8	311	0.683	0.0	1.0	41.9	62.2	-18.8	65.0	343.1
513	R50Y_075_075d	0.75	0.375	0.0	0.75	0.75	0.375	60	0.75	0.375	0.0	54.8	16.9	50.7	53.4	71.4	0.75	0.375	0.0	58.5	14.8	53.4	55.4	74.4	5.0	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
514	R38Y_075_062d	0.75	0.375	0.125	0.75	0.625	0.437	53	0.75	0.364	0.125	55.0	20.3	38.0	43.1	61.8	0.75	0.375	0.125	58.3	17.2	41.2	44.7	67.3	5.5	52	1.0	0.383	0.0	61.8	32.5	60.8	69.0	61.8
515	R23Y_075_050d	0.75	0.375	0.25	0.75	0.5	0.5	44	0.75	0.366	0.25	55.9	22.9	26.1	34.7	48.7	0.75	0.375	0.25	59.2	18.2	30.2	35.3	58.9	7.0	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
516	R00Y_075_037d	0.75	0.375	0.375	0.75	0.375	0.562	390	0.75	0.375	0.375	57.9	23.9	15.4	28.5	32.8	0.75	0.375	0.375	60.3	19.0	19.1	27.0	45.1	6.6	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
517	R18Y_075_037d	0.75	0.375	0.5	0.75	0.375	0.562	371	0.75	0.375	0.493	58.1	24.6	9.4	26.4	20.9	0.75	0.375	0.5	61.1	20.6	10.1	22.9	26.0	5.0	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
518	B65R_075_037d	0.75	0.375	0.625	0.75	0.375	0.562	349	0.75	0.375	0.631	58.2	26.1	1.5	26.1	3.2	0.75	0.375	0.625	61.7	22.5	0.8	22.5	2.1	5.0	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
519	B50R_075_037d	0.75	0.375	0.75	0.75	0.375	0.562	330	0.75	0.375	0.75	58.3	27.3	-3.2	27.5	353.3	0.75	0.375	0.75	62.3	24.5	-6.0	25.2	346.1	5.6	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
520	B38R_087_050d	0.75	0.375	0.875	0.875	0.5	0.625	316	0.758	0.375	0.875	59.7	33.2	-7.2	34.0	347.6	0.75	0.375	0.875	62.9	29.2	-9.9	30.8	341.2	5.7	317	0.766	0.0	1.0	43.5	66.4	-14.5	68.0	347.6
521	B30R_100_062d	0.75	0.375	1.0	1.0	0.625	0.687	307	0.76	0.375	1.0	61.2	36.5	-13.8	39.1	339.2	0.75	0.375	1.0	61.3	33.7	-13.8	36.5	337.7	2.7	307	0.616	0.0	1.0	40.7	58.5	-22.1	62.5	339.2
522	R68Y_075_075d	0.75	0.5	0.0	0.75	0.75	0.375	71	0.75	0.512	0.0	61.6	5.2	59.6	59.8	84.9	0.75	0.5	0.0	65.3	3.7	61.2	61.4	86.4	4.2	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
523	R61Y_075_062d	0.75	0.5	0.125	0.75	0.625	0.437	67	0.75	0.51	0.125	62.1	7.4	47.2	47.8	81.0	0.75	0.5	0.125	65.8	4.9	48.4	48.6	84.1	4.6	67	1.0	0.616	0.0	73.2	11.8	75.6	76.6	81.0
524	R50Y_075_050d	0.75	0.5	0.25	0.75	0.5	0.5	60	0.75	0.5	0.25	61.9	11.3	33.8	35.6	71.4	0.75	0.5	0.25	66.3	6.8	35.2	35.9	78.9	6.4	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
525	R31Y_075_037d	0.75	0.5	0.375	0.75	0.375	0.562	49	0.75	0.493	0.375	62.3	14.4	21.4	25.8	55.9	0.75	0.5	0.375	67.1	8.8	23.2	24.8	69.2	7.6	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
526	R00Y_075_025d	0.75	0.5	0.5	0.75	0.25	0.625	390	0.75	0.5	0.5	64.0	15.9	10.3	19.0	32.8	0.75	0.5	0.5	68.1	10.5	12.8	16.6	50.6	7.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
527	R00Y_075_025d	0.75	0.5	0.625	0.75	0.25	0.625	360	0.75	0.5	0.625	64.1	16.9	3.5	17.2	11.6	0.75	0.5	0.625	68.9	12.4	3.9	13.0	17.6	6.6	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
528	B50R_075_025d	0.75	0.5	0.75	0.75	0.25	0.625	330	0.75	0.5	0.75	64.2	18.2	-2.1	18.3	353.3	0.75	0.5	0.75	69.9	14.4	-4.0	15.0	344.2	7.1	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
529	B34R_087_037d	0.75	0.5	0.875	0.875	0.375	0.687	311	0.756	0.5	0.875	65.7	23.3	-7.0	24.3	343.1	0.75	0.5	0.875	70.4	18.9	-8.4	20.7	336.0	6.6	311	0.683	0.0	1.0	41.9	62.2	-18.8	65.0	343.1
530	B25R_100_050d	0.75	0.5	1.0	1.0	0.5	0.75	300	0.75	0.5	1.0	66.6	26.9	-13.1	29.9	333.9	0.75	0.5	1.0	67.0	24.7	-13.3	28.1	331.7	2.1	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
531	R85Y_075_075d	0.75	0.625	0.0	0.75	0.75	0.375	81	0.75	0.637	0.0	66.8	-3.0	66.1	66.2	92.6	0.75	0.625	0.0	70.9	-5.2	67.9	68.1	94.4	4.9	81	1.0	0.85	0.0	83.2	-4.0	88.2	88.3	92.6
532	R81Y_075_062d	0.75	0.625	0.125	0.75	0.625	0.437	79	0.75	0.635	0.125	67.5	-1.2	54.1	54.1	91.2	0.75	0.625	0.125	71.8	-4.0	54.0	54.1	94.3	5.0	80	1.0	0.816	0.0	81.9	-1.9	86.5	86.5	91.2
533	R76Y_075_050d	0.75	0.625	0.25	0.75	0.5	0.5	76	0.75	0.633	0.25	68.2	0.5	41.9	41.9	89.2	0.75	0.625	0.25	72.6	-2.5	40.3	40.4	93.6	5.5	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
534	R68Y_075_037d	0.75	0.625	0.375	0.75	0.375	0.562	71	0.75	0.631	0.375	68.8	2.6	29.8	29.9	84.9	0.75	0.625	0.375	73.6	-0.7	27.1	27.1	91.5	6.4	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
535	R50Y_075_025d	0.75	0.625	0.5	0.75	0.25	0.625	60	0.75	0.625	0.5	68.9	5.6	16.9	17.8	71.4	0.75	0.625	0.5	74.2	1.8	15.9	16.0	83.4	6.5	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
536	R00Y_075_012d	0.75	0.625	0.625	0.75	0.125	0.687	390	0.75	0.625	0.625	70.0	7.9	5.1	9.5	32.8	0.75	0.625	0.625	75.2	3.9	6.3	7.4	58.1	6.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
537	B50R_075_012d	0.75	0.625	0.75	0.75	0.125	0.687	330	0.75	0.625	0.75	70.1	9.1	-1.0	9.1	353.3	0.75	0.625	0.75	76.0	6.3	-2.3	6.7	339.6	6.6	330	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
538	B25R_087_025d	0.75	0.625	0.875	0.875	0.25	0.75	300	0.75	0.625	0.875	71.3	13.4	-6.5	14.9	333.9	0.75	0.625	0.875	75.3	11.3	-7.4	13.5	326.7	4.6	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
539	B15R_100_037d	0.75	0.625	1.0	1.0	0.375	0.812	289	0.743	0.625	1.0	71.9	15.9	-13.2	20.7	320.2	0.75	0.625	1.0	73.6	14.6	-12.0	19.0	320.6	2.4	288	0.316	0.0	1.0	32.7	42.4	-35.3	55.3	320.2
540	Y00G_075_075d	0.75	0.75	0.0	0.75	0.75	0.375	90	0.75	0.75	0.0	70.7	-8.9	71.3	71.9	97.1	0.75	0.75	0.0	75.0	-11.3	72.0	72.9	98.9	5.0	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
541	Y00G_075_062d	0.75	0.75	0.125	0.75	0.625	0.437	90	0.75	0.75	0.125	71.5	-7.4	59.4	59.9	97.1	0.75	0.75	0.125	75.8	-10.4	57.9	58.8	100.1	5.3	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
542	Y00G_075_050d	0.75	0.75	0.25	0.75	0.5	0.5	90	0.75	0.75	0.25	72.4	-5.9	47.5	47.9	97.1	0.75	0.75	0.25	76.8	-9.0	43.9	44.8	101.6	6.4	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
543	Y00G_075_037d	0.75	0.75	0.375	0.75	0.375	0.562	90	0.75	0.75	0.375	73.3	-4.4	35.6	35.9	97.1	0.75	0.75	0.375	77.9	-7.1	30.3	31.1	103.3	7.5	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
544	Y00G_075_025d	0.75	0.75	0.5	0.75	0.25	0.625	90	0.75	0.75	0.5	74.2	-2.9	23.7	23.9	97.1	0.75	0.75	0.5	79.0	-5.0	18.6	19.3	105.1	7.2	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
545	Y00G_075_012d	0.75	0.75	0.625	0.75	0.125	0.687	90	0.75	0.75	0.625	75.1	-1.4	11.8	11.9	97.1	0.75	0.75	0.625	80.1	-2.7	8.6	9.0	107.8	6.0	89	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
546	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	80.8	-0.2	-0.4	0.5	237.4	4.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
547	B00R_087_012d	0.75	0.75	0.875	0.875	0.125	0.812	270	0.75	0.75	0.875	76.9	2.9	-5.9	6.6	296.4	0.75	0.75	0.875	81.6	3.1	-5.7	6.5	298.9	4.6	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
548	B00R_100_025d	0.75	0.75	1.0	1.0	0.25	0.875	270	0.75	0.75	1.0	77.9	5.8	-11.8	13.2	296.4	0.75	0.75	1.0	78.9	8.0	-10.5	13.2	307.1	2.6	270	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
549	Y13G_087_087d	0.75	0.875	0.0	0.875	0.875	0.437	98	0.758	0.875	0.0	77.1	-14.4	77.2	78.5	100.5	0.75	0.875	0.0	80.0	-15.6	79.0	80.5	101.1	3.6	97	0.866	1.0	0.0	85.6	-16.4	88.2	89.7	100.5
550	Y15G_087_075d	0.75	0.875	0.125	0.875	0.75	0.5	99	0.762	0.875	0.125	78.1	-12.7	65.6	66.8	100.9	0.75	0.875	0.125	80.9	-14.7	64.2	65.9	102.8	3.6	97	0.85	1.0	0.0	85.2	-16.9	87.4	89.1	100.9
551	Y18G_087_062d	0.75	0.875	0.25	0.875	0.625	0.562	101	0.76	0.875	0.25	78.9	-11.2	53.7	54.9	101.7	0.75	0.875	0.25	81.8	-13.4	51.2	53.0	104.7	4.4	99	0.816	1.0	0.0	84.5	-17.9	86.0	87.8	101.7
552	Y23G_087_050d	0.75	0.875	0.375	0.875	0.5	0.625	104	0.758	0.875	0.375	79.7	-9.6	41.8	42.9	102.9	0.75	0.875	0.375	82.6	-11.9	37.0	38.9	107.8	6.0	102	0.766	1.0	0.0	83.3	-19.2	83.7	85.9	102.9
553	Y31G_087_037d	0.75	0.875	0.5	0.875	0.375	0.687	109	0.756	0.875	0.5	79.8	-8.5	29.8	31.0	106.0	0.75	0.875	0.5	83.6	-9.7	24.7	26.6	111.5	6.4	108	0.683	1.0	0.0	79.8	-22.8	79.5	82.7	106.0
554	Y50G_087_025d	0.75	0.875	0.625	0.875	0.25	0.75	120	0.75	0.875	0.625	80.0	-7.8	16.5	18.2	115.3	0.75	0.875	0.625	84.3	-7.7	14.0	16.0	119.0	4.9	119	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
555	G00B_087_012d	0.75	0.875	0.75	0.875	0.125	0.812	150	0.75	0.875	0.75	80.3	-8.6	3.5	9.2	157.7	0.75	0.875	0.75	85.3	-5.4	4.5	7.0	140.0	6.0	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
556	G50B_087_012d	0.75	0.875	0.875	0.875	0.125	0.812	210	0.75	0.875	0.875	81.1	-3.6	-5.4	6.5	236.1	0.75	0.875	0.875	86.2	-2.8	-3.9	4.8	234.6	5.4	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
557	G75B_100_025d	0.75	0.875	1.0	1.0	0.25	0.875	240	0.75	0.875	1.0	82.3	-1.5	-11.2	11.3	262.3	0.75	0.875	1.0	84.8	0.5	-9.1	9.1	273.5	3.8	240	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
558	Y23G_100_100d	0.75	1.0	0.0	1.0	1.0	0.5	104	0.766	1.0	0.0	83.3	-19.2	83.7	85.9	102.9	0.75	1.0	0.0	82.9	-19.7	83.0	85.3	103.3	0.9	102	0.766	1.0	0.0	83.3	-19.2	83.7	85.9	102.9
559	Y26G_100_087d	0.75	1.0	0.125	1.0	0.875	0.562	106	0.766	1.0	0.125	83.8	-17.9	71.8	74.0	104.0	0.75	1.0	0.125	83.6	-18.9	68.5	71.1	105.4	3.4	104	0.733	1.0	0.0	82.2	-20.5	82.1	84.6	104.0
560	Y31G_100_075d	0.75	1.0	0.25	1.0	0.75	0.625	109	0.762	1.0	0.25	83.7	-17.1	59.6	62.0	106.0	0.75	1.0	0.25	84.3	-17.8	55.0	57.9	107.9	4.6	108	0.683	1.0	0.0	79.8	-22.8	79.5	82.7	106.0
561	Y38G_100_062d	0.75	1.0	0.375	1.0	0.625	0.687	113	0.76	1.0	0.375	83.8	-16.0	47.3	49.9	108.7	0.75	1.0	0.375	85.2	-16.3	42.5	45.5	110.9	4.9	112	0.616	1.0	0.0	76.8	-25.7	75.6	79.9	108.7
562	Y50G_100_050d	0.75	1.0	0.5	1.0	0.5	0.75	120	0.75	1.0	0.5	84.1	-15.6	33.0	36.5	115.3	0.75	1.0	0.5	85.6	-14.8	29.6	33.1	116.5	3.8	119	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
563	Y68G_100_037d	0.75	1.0	0.625	1.0	0.375	0.812	131	0.743	1.0	0.625	84.1	-15.8	20.1	25.6	128.2	0.75	1.0	0.625	86.6	-12.6	18.4	22.3	124.3	4.4	131	0.316	1.0	0.0	65.1	-42.3	53.6	68.2	128.2
564	G00B_100_025d	0.75	1.0	0.75	1.0	0.25	0.875	150	0.75	1.0	0.75	84.5	-17.2	7.0	18.5	157.7	0.75	1.0	0.75	87.7	-10.1	8.7	13.3	139.0	7.9	149	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
565	G25B_100_025d	0.75	1.0	0.875	1.0	0.25	0.875	180	0.75	1.0	0.875	85.3	-12.7	-3.0	13.1	193.5	0.75	1.0	0.875	88.6	-7.7	0.1	7.7	178.5	6.8	180	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
566	G50B_100_025d	0.75	1.0	1.0	1.0	0.25	0.875	210	0.75	1.0	1.0	86.1	-7.3	-10.9	13.1	236.1	0.75	1.0	1.0	89.3	-5.1	-7.6	9.2	235.9	5.0	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = 4.6

1-0032530-F0

QE040-7N, Page 26/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

1-0032530-F0

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS
application for measurement of offset print output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

QE0400L

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
567	R00Y_087_087d	0.875	0.0	0.0	0.875	0.875	0.437	390	0.875	0.0	0.0	43.6	55.8	36.0	66.5	32.8	0.875	0.0	0.0	44.5	58.8	36.5	69.2	31.8	3.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
568	R36Y_087_087d	0.875	0.0	0.125	0.875	0.875	0.437	382	0.875	0.0	0.116	43.7	56.4	30.4	64.1	28.3	0.875	0.0	0.125	44.6	59.5	30.5	66.9	27.1	3.2	382	1.0	0.0	0.133	47.4	64.5	34.7	73.2	28.3
569	R23Y_087_087d	0.875	0.0	0.25	0.875	0.875	0.437	374	0.875	0.0	0.233	43.9	57.1	24.4	62.1	23.2	0.875	0.0	0.25	44.8	60.2	24.2	64.9	21.8	3.3	375	1.0	0.0	0.266	47.7	65.2	27.9	71.0	23.2
570	R08Y_087_087d	0.875	0.0	0.375	0.875	0.875	0.437	365	0.875	0.0	0.364	44.0	58.4	16.8	60.8	16.0	0.875	0.0	0.375	44.9	61.7	15.9	63.7	14.4	3.5	365	1.0	0.0	0.416	47.7	66.7	19.2	69.5	16.0
571	B70R_087_087d	0.875	0.0	0.5	0.875	0.875	0.437	355	0.875	0.0	0.51	44.1	60.0	8.2	60.5	7.8	0.875	0.0	0.5	45.1	63.5	7.6	63.9	6.8	3.6	354	1.0	0.0	0.583	47.9	68.6	9.4	69.2	7.8
572	B63R_087_087d	0.875	0.0	0.625	0.875	0.875	0.437	346	0.875	0.0	0.641	44.3	61.5	1.1	61.5	1.0	0.875	0.0	0.625	45.3	64.8	0.7	64.8	0.6	3.5	344	1.0	0.0	0.733	48.1	70.3	1.3	70.3	1.0
573	B56R_087_087d	0.875	0.0	0.75	0.875	0.875	0.437	338	0.875	0.0	0.758	44.4	62.6	−3.5	62.7	356.7	0.875	0.0	0.75	45.4	66.2	−4.4	66.3	356.1	3.8	337	1.0	0.0	0.866	48.2	71.5	−4.0	71.7	356.7
574	B50R_087_087d	0.875	0.0	0.875	0.875	0.875	0.437	330	0.875	0.0	0.875	44.4	63.7	−7.4	64.1	353.3	0.875	0.0	0.875	45.5	67.6	−8.9	68.2	352.4	4.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
575	B44R_100_100d	0.875	0.0	1.0	1.0	1.0	0.5	323	0.883	0.0	1.0	46.1	69.7	−11.7	70.7	350.4	0.875	0.0	1.0	45.9	69.4	−11.9	70.5	350.2	0.3	323	0.883	0.0	1.0	46.1	69.7	−11.7	70.7	350.4
576	R13Y_087_087d	0.875	0.125	0.0	0.875	0.875	0.437	38	0.875	0.116	0.0	47.3	47.4	41.3	62.9	41.0	0.875	0.125	0.0	49.5	47.9	41.9	63.7	41.2	2.4	37	1.0	0.133	0.0	51.5	54.2	47.2	71.9	41.0
577	R00Y_087_075d	0.875	0.125	0.125	0.875	0.75	0.5	390	0.875	0.125	0.125	49.6	47.9	30.9	57.0	32.8	0.875	0.125	0.125	49.7	48.3	35.1	59.7	36.0	4.2	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
578	R35Y_087_075d	0.875	0.125	0.25	0.875	0.75	0.5	381	0.875	0.125	0.237	49.7	48.4	25.4	54.7	27.6	0.875	0.125	0.25	50.0	48.9	28.0	56.4	29.7	2.6	382	1.0	0.0	0.15	47.5	64.6	33.9	72.9	27.6
579	R18Y_087_075d	0.875	0.125	0.375	0.875	0.75	0.5	371	0.875	0.125	0.362	49.9	49.3	18.8	52.8	20.9	0.875	0.125	0.375	50.5	50.0	18.7	53.4	20.5	0.9	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
580	R00Y_087_075d	0.875	0.125	0.5	0.875	0.75	0.5	360	0.875	0.125	0.5	49.9	50.7	10.5	51.8	11.6	0.875	0.125	0.5	50.6	51.8	9.7	52.7	10.6	1.4	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
581	B65R_087_075d	0.875	0.125	0.625	0.875	0.75	0.5	349	0.875	0.125	0.637	50.2	52.3	3.0	52.3	3.2	0.875	0.125	0.625	51.3	53.1	1.9	53.1	2.1	1.7	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
582	B57R_087_075d	0.875	0.125	0.75	0.875	0.75	0.5	339	0.875	0.125	0.762	50.3	53.5	−2.5	53.6	357.2	0.875	0.125	0.75	51.3	54.8	−4.2	54.9	355.5	2.3	337	1.0	0.0	0.85	48.2	71.4	−3.3	71.5	357.2
583	B50R_087_075d	0.875	0.125	0.875	0.875	0.75	0.5	330	0.875	0.125	0.875	50.3	54.6	−6.4	55.0	353.3	0.875	0.125	0.875	51.7	55.8	−8.9	56.5	350.8	3.1	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
584	B43R_100_087d	0.875	0.125	1.0	1.0	0.875	0.562	322	0.883	0.125	1.0	51.9	60.6	−10.6	61.5	350.0	0.875	0.125	1.0	51.4	58.8	−12.3	60.1	348.1	2.5	322	0.866	0.0	1.0	45.7	69.2	−12.1	70.3	350.0
585	R26Y_087_087d	0.875	0.25	0.0	0.875	0.875	0.437	46	0.875	0.233	0.0	51.8	37.6	47.3	60.4	51.5	0.875	0.25	0.0	54.6	36.3	50.0	61.8	54.0	4.0	44	1.0	0.266	0.0	56.7	43.0	54.1	69.1	51.5
586	R15Y_087_075d	0.875	0.25	0.125	0.875	0.75	0.5	39	0.875	0.237	0.125	53.2	39.6	36.1	53.6	42.3	0.875	0.25	0.125	55.1	36.9	40.5	54.8	47.6	5.5	37	1.0	0.15	0.0	52.1	52.8	48.1	71.5	42.3
587	R00Y_087_062d	0.875	0.25	0.25	0.875	0.625	0.562	390	0.875	0.25	0.25	55.6	39.9	25.7	47.5	32.8	0.875	0.25	0.25	56.2	36.3	31.9	48.4	41.2	7.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
588	R31Y_087_062d	0.875	0.25	0.375	0.875	0.625	0.562	379	0.875	0.25	0.364	55.8	40.5	20.1	45.2	26.4	0.875	0.25	0.375	56.6	37.6	22.7	43.9	31.1	3.9	380	1.0	0.0	0.183	47.5	64.8	32.2	72.4	26.4
589	R11Y_087_062d	0.875	0.25	0.5	0.875	0.625	0.562	367	0.875	0.25	0.489	55.9	41.4	13.3	43.5	17.8	0.875	0.25	0.5	57.1	39.0	13.1	41.2	18.5	2.6	367	1.0	0.0	0.383	47.7	66.3	21.3	69.6	17.8
590	B69R_087_062d	0.875	0.25	0.625	0.875	0.625	0.562	353	0.875	0.25	0.635	56.1	43.0	4.7	43.3	6.2	0.875	0.25	0.625	57.8	40.7	4.0	40.9	5.6	2.9	352	1.0	0.0	0.616	48.0	68.8	7.5	69.2	6.2
591	B59R_087_062d	0.875	0.25	0.75	0.875	0.625	0.562	341	0.875	0.25	0.76	56.2	44.4	−1.3	44.4	358.3	0.875	0.25	0.75	58.0	42.4	−2.7	42.4	356.2	3.1	339	1.0	0.0	0.816	48.2	71.1	−2.1	71.1	358.3
592	B50R_087_062d	0.875	0.25	0.875	0.875	0.625	0.562	330	0.875	0.25	0.875	56.2	45.5	−5.3	45.8	353.3	0.875	0.25	0.875	58.6	43.6	−8.2	44.4	349.2	4.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
593	B42R_100_075d	0.875	0.25	1.0	1.0	0.75	0.625	321	0.887	0.25	1.0	57.9	51.6	−9.4	52.4	349.6	0.875	0.25	1.0	58.2	47.0	−11.3	48.3	346.4	4.9	322	0.85	0.0	1.0	45.3	68.8	−12.5	69.9	349.6
594	R41Y_087_087d	0.875	0.375	0.0	0.875	0.875	0.437	55	0.875	0.364	0.0	57.6	26.1	55.0	60.9	64.6	0.875	0.375	0.0	61.0	24.0	57.6	62.4	67.3	4.7	54	1.0	0.416	0.0	63.3	29.8	62.9	69.6	64.6
595	R31Y_087_075d	0.875	0.375	0.125	0.875	0.75	0.5	49	0.875	0.362	0.125	58.3	28.9	42.8	51.7	55.9	0.875	0.375	0.125	61.3	24.7	46.7	52.9	62.0	6.4	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
596	R18Y_087_062d	0.875	0.375	0.25	0.875	0.625	0.562	41	0.875	0.364	0.25	59.4	31.3	31.2	44.2	44.9	0.875	0.375	0.25	62.0	25.3	36.6	44.5	55.3	8.5	39	1.0	0.183	0.0	53.4	50.1	49.9	70.7	44.9
597	R00Y_087_050d	0.875	0.375	0.375	0.875	0.5	0.625	390	0.875	0.375	0.375	61.6	31.9	20.6	38.0	32.8	0.875	0.375	0.375	63.1	25.8	25.8	36.5	45.0	8.2	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
598	R26Y_087_050d	0.875	0.375	0.5	0.875	0.5	0.625	376	0.875	0.375	0.491	61.8	32.5	14.8	35.7	24.5	0.875	0.375	0.5	63.6	27.5	16.3	32.0	30.7	5.5	377	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
599	R00Y_087_050d	0.875	0.375	0.625	0.875	0.5	0.625	360	0.875	0.375	0.625	61.8	33.8	7.0	34.5	11.6	0.875	0.375	0.625	64.6	28.9	7.0	29.7	13.6	5.6	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
600	B61R_087_050d	0.875	0.375	0.75	0.875	0.5	0.625	344	0.875	0.375	0.758	62.1	35.3	−0.1	35.3	359.8	0.875	0.375	0.75	65.2	30.6	−0.7	30.6	358.5	5.6	342	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
601	B50R_087_050d	0.875	0.375	0.875	0.875	0.5	0.625	330	0.875	0.375	0.875	62.1	36.4	−4.2	36.6	353.3	0.875	0.375	0.875	65.9	31.9	−6.8	32.6	347.9	6.4	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
602	B40R_100_062d	0.875	0.375	1.0	1.0	0.625	0.687	319	0.885	0.375	1.0	63.7	42.4	−8.3	43.2	348.8	0.875	0.375	1.0	64.0	36.8	−10.7	38.3	343.7	6.0	320	0.816	0.0	1.0	44.6	67.8	−13.3	69.1	348.8
603	R58Y_087_087d	0.875	0.5	0.0	0.875	0.875	0.437	65	0.875	0.51	0.0	64.7	13.2	64.3	65.7	78.3	0.875	0.5	0.0	68.1	11.2	66.4	67.3	80.3	4.4	65	1.0	0.583	0.0	71.5	15.1	73.5	75.0	78.3
604	R50Y_087_075d	0.875	0.5	0.125	0.875	0.75	0.5	60	0.875	0.5	0.125	64.5	16.9	50.7	53.4	71.4	0.875	0.5	0.125	68.2	12.8	53.6	55.1	76.5	6.2	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
605	R38Y_087_062d	0.875	0.5	0.25	0.875	0.625	0.562	53	0.875	0.489	0.25	64.7	20.3	38.0	43.1	61.8	0.875	0.5	0.25	68.5	14.4	41.9	44.3	71.0	8.0	52	1.0	0.383	0.0	61.8	32.5	60.8	69.0	61.8
606	R23Y_087_050d	0.875	0.5	0.375	0.875	0.5	0.625	44	0.875	0.491	0.375	65.7	22.9	26.1	34.7	48.7	0.875	0.5	0.375	69.6	15.3	30.1	33.8	63.0	9.4	42	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
607	R00Y_087_037d	0.875	0.5	0.5	0.875	0.375	0.687	390	0.875	0.5	0.5	67.7	23.9	15.4	28.5	32.8	0.875	0.5	0.5	70.6	16.3	19.6	25.5	50.1	9.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
608	R18Y_087_037d	0.875	0.5	0.625	0.875	0.375	0.687	371	0.875	0.5	0.618	67.8	24.6	9.4	26.4	20.9	0.875	0.5	0.625	71.4	18.1	10.4	20.8	29.8	7.5	371	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
609	B65R_087_037d	0.875	0.5	0.75	0.875	0.375	0.687	349	0.875	0.5	0.756	67.9	26.1	1.5	26.1	3.2	0.875	0.5	0.75	72.4	19.7	1.7	19.8	5.0	7.8	348	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
610	B50R_087_037d	0.875	0.5	0.875	0.875	0.375	0.687	330	0.875	0.5	0.875	68.0	27.3	−3.2	27.5	353.3	0.875	0.5	0.875	73.0	21.6	−5.2	22.2	346.2	7.8	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
611	B38R_100_050d	0.875	0.5	1.0	1.0	0.5	0.75	316	0.883	0.5	1.0	69.4	33.2	−7.2	34.0	347.6	0.875	0.5	1.0	70.0	27.9	−9.7	29.5	340.7	5.8	317	0.766	0.0	1.0	43.5	66.4	−14.5	68.0	347.6
612	R73Y_087_087d	0.875	0.625	0.0	0.875	0.875	0.437	74	0.875	0.641	0.0	70.9	2.9	71.9	72.0	87.6	0.875	0.625	0.0	73.6	2.3	72.9	72.9	88.1	2.9	75	1.0	0.733	0.0	78.5	3.3	82.2	82.3	87.6
613	R68Y_087_075d	0.875	0.625	0.125	0.875	0.75	0.5	71	0.875	0.637	0.125	71.3	5.2	59.6	59.8	84.9	0.875	0.625	0.125	74.1	3.2	59.3	59.4	86.8	3.4	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
614	R61Y_087_062d	0.875	0.625	0.25	0.875	0.625	0.562	67	0.875	0.635	0.25	71.8	7.4	47.2	47.8	81.0	0.875	0.625	0.25	74.7	4.4	47.2	47.4	84.6	4.2	67	1.0	0.616	0.0	73.2	11.8	75.6	76.6	81.0
615	R50Y_087_050d	0.875	0.625	0.375	0.875	0.5	0.625	60	0.875	0.625	0.375	71.6	11.3	33.8	35.6	71.4	0.875	0.625	0.375	75.2	6.3	34.1	34.7	79.4	6.1	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
616	R31Y_087_037d	0.875	0.625	0.5	0.875	0.375	0.687	49	0.875	0.618	0.5	72.0	14.4	21.4	25.8	55.9	0.875	0.625	0.5	75.7	8.7	22.5	24.1	68.8	6.9	48	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
617	R00Y_087_025d	0.875	0.625	0.625	0.875	0.25	0.75	390	0.875	0.625	0.625	73.7	15.9	10.3	19.0	32.8	0.875	0.625	0.625	76.8	10.1	12.8	16.3	51.6	7.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
618	R00Y_087_025d	0.875	0.625	0.75	0.875	0.25	0.75	360	0.875	0.625	0.75	73.8	16.9	3.5	17.2	11.6	0.875	0.625	0.75	77.6	12.2	3.9	12.8	17.9	6.0	360	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
619	B50R_087_025d	0.875	0.625	0.875	0.875	0.25	0.75	330	0.875	0.625	0.875	73.9	18.2	−2.1	18.3	353.3	0.875	0.625	0.875	78.4	14.2	−3.8	14.7	344.9	6.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
620	B34R_100_037d	0.875	0.625	1.0	1.0	0.375	0.812	311	0.881	0.625	1.0	75.4	23.3	−7.0	24.3	343.1	0.875	0.625	1.0	77.1	17.7	−8.0	19.5	335.5	5.9	311	0.683	0.0	1.0	41.9	62.2	−18.8	65.0	343.1
621	R86Y_087_087d	0.875	0.75	0.0	0.875	0.875	0.437	82	0.875	0.758	0.0	75.6	−4.5	77.9	78.0	93.3	0.875	0.75	0.0	78.5	−5.6	78.9	79.1	94.1	3.3	82	1.0	0.866	0.0	83.9	−5.1	89.0	89.2	93.3
622	R85Y_087_075d	0.875	0.75	0.125	0.875	0.75	0.5	81	0.875	0.762	0.125	76.6	−3.0	66.1	66.2	92.6	0.875	0.75	0.125	79.7	−5.3	65.3	65.6	94.6	3.9	81	1.0	0.85	0.0	83.2	−4.0	88.2	88.3	92.6
623	R81Y_087_062d	0.875	0.75	0.25	0.875	0.625	0.562	79	0.875	0.76	0.25	77.3	−1.2	54.1	54.1	91.2	0.875	0.75	0.25	80.5	−4.3	52.5	52.7	94.7	4.7	80	1.0	0.816	0.0	81.9	−1.9	86.5	86.5	91.2
624	R76Y_087_050d	0.875	0.75	0.375	0.875	0.5	0.625	76	0.875	0.758	0.375	77.9	0.5	41.9	41.9	89.2	0.875	0.75	0.375	81.3	−2.5	38.7	38.8	93.6	5.5	77	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
625	R68Y_087_037d	0.875	0.75	0.5	0.875	0.375	0.687	71	0.875	0.756	0.5	78.5	2.6	29.8	29.9	84.9	0.875	0.75	0.5	82.2	−0.6	26.3	26.3	91.4	6.0	71	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
626	R50Y_087_025d	0.875	0.75	0.625	0.875	0.25	0.75	60	0.875	0.75	0.625	78.6	5.6	16.9	17.8	71.4	0.875	0.75	0.625	83.0	1.6	15.7	15.8	84.0	6.0	59	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
627	R00Y_087_012d	0.875	0.75	0.75	0.875	0.125	0.812	390	0.875	0.75	0.75	79.7	7.9	5.1	9.5	32.8	0.875	0.75	0.75	84.1	3.7	6.3	7.3	59.5	6.2	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
628	B50R_087_012d	0.875	0.75	0.875	0.875	0.125	0.812	330	0.875	0.75	0.875	79.8	9.1	−1.0	9.1	353.3	0.875	0.75	0.875	84.8	6.0	−2.0	6.3	341.0	5.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
629	B25R_100_025d	0.875	0.75	1.0	1.0	0.25	0.875	300	0.875	0.75	1.0	81.0	13.4	−6.5	14.9	333.9	0.875	0.75	1.0	81.8	10.6	−7.1	12.8	326.1	2.9	300	0.5	0.0	1.0	37.8	53.8	−26.3	59.9	333.9
630	Y00G_087_087d	0.875	0.875	0.0	0.875	0.875	0.437	90	0.875	0.875	0.0	79.5	−10.4	83.2	83.8	97.1	0.875	0.875	0.0	83.0	−12.0	84.5	85.4	98.1	4.1	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
631	Y00G_087_075d	0.875	0.875	0.125	0.875	0.75	0.5	90	0.875	0.875	0.125	80.4	−8.9	71.3	71.9	97.1	0.875	0.875	0.125	83.8	−11.3	69.7	70.7	99.2	4.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
632	Y00G_087_062d	0.875	0.875	0.25	0.875	0.625	0.562	90	0.875	0.875	0.25	81.3	−7.4	59.4	59.9	97.1	0.875	0.875	0.25	84.8	−10.3	56.5	57.5	100.3	5.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
633	Y00G_087_050d	0.875	0.875	0.375	0.875	0.5	0.625	90	0.875	0.875	0.375	82.2	−5.9	47.5	47.9	97.1	0.875	0.875	0.375	85.8	−8.7	42.1	43.0	101.7	7.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
634	Y00G_087_037d	0.875	0.875	0.5	0.875	0.375	0.687	90	0.875	0.875	0.5	83.0	−4.4	35.6	35.9	97.1	0.875	0.875	0.5	87.0	−6.8	29.5	30.3	103.1	7.6	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
635	Y00G_087_025d	0.875	0.875	0.625	0.875	0.25	0.75	90	0.875	0.875	0.625	83.9	−2.9	23.7	23.9	97.1	0.875	0.875	0.625	88.0	−4.7	18.6	19.2	104.4	6.8	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
636	Y00G_087_012d	0.875	0.875	0.75	0.875	0.125	0.812	90	0.875	0.875	0.75	84.8	−1.4	11.8	11.9	97.1	0.875	0.875	0.75	88.8	−2.5	8.6	9.0	106.5	5.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
637	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.7	−0.1	−0.1	0.2	234.3	4.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
638	B00R_100_012d	0.875	0.875	1.0	1.0	0.125	0.937	270	0.875	0.875	1.0	86.7	2.9	−5.9	6.6	296.4	0.875	0.875	1.0	87.9	3.1	−5.6	6.4	298.9	1.3	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
639	Y11G_100_100d	0.875	1.0	0.0	1.0	1.0	0.5	97	0.883	1.0	0.0	86.0	−15.9	89.0	90.4	100.1	0.875	1.0	0.0	85.8	−16.2	88.6	90.0	100.3	0.5	96	0.883	1.0	0.0	86.0	−15.9	89.0	90.4	100.1
640	Y13G_100_087d	0.875	1.0	0.125	1.0	0.875	0.562	98	0.883	1.0	0.125	86.8	−14.4	77.2	78.5	100.5	0.875	1.0	0.125	86.5	−15.6	74.4	76.0	101.8	3.0	97	0.866	1.0	0.0	85.6	−16.4	88.2	89.7	100.5
641	Y15G_100_075d	0.875	1.0	0.25	1.0	0.75	0.625	99	0.887	1.0	0.25	87.8	−12.7	65.6	66.8	100.9	0.875	1.0	0.25	87.5	−14.3	61.6	63.3	103.1	4.2	97	0.85	1.0	0.0	85.2	−16.9	87.4	89.1	100.9
642	Y18G_100_062d	0.875	1.0	0.375	1.0	0.625	0.687	101	0.885	1.0	0.375	88.6	−11.2	53.7	54.9	101.7	0.875	1.0	0.375	87.9	−13.2	47.9	49.7	105.4	6.1	99	0.816	1.0	0.0	84.5	−17.9	86.0	87.8	101.7
643	Y23G_100_050d	0.875	1.0	0.5	1.0	0.5	0.75	104	0.883	1.0	0.5	89.4	−9.6	41.8	42.9	102.9	0.875	1.0	0.5	89.2	−11.4	35.4	37.2	107.9	6.6	102	0.766	1.0	0.0	83.3	−19.2	83.7	85.9	102.9
644	Y31G_100_037d	0.875	1.0	0.625	1.0	0.375	0.812	109	0.881	1.0	0.625	89.6	−8.5	29.8	31.0	106.0	0.875	1.0	0.625	90.3	−9.4	23.8	25.6	111.5	6.0	108	0.683	1.0	0.0	79.8	−22.8	79.5	82.7	106.0
645	Y50G_100_025d	0.875	1.0	0.75	1.0	0.25	0.875	120	0.875	1.0	0.75	89.8	−7.8	16.5	18.2	115.3	0.875	1.0	0.75	90.8	−7.5	13.3	15.3	119.5	3.3	119	0.5	1.0	0.0	72.7	−31.3	66.0	73.1	115.3
646	G00B_100_012d	0.875	1.0	0.875	1.0	0.125	0.937	150	0.875	1.0	0.875	90.0	−8.6	3.5	9.2	157.7	0.875	1.0	0.875	91.7	−5.2	4.3	6.8	140.1	3.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
647	G50B_100_012d	0.875	1.0	1.0	1.0	0.125	0.937	210	0.875	1.0	1.0	90.8	−3.6	−5.4	6.5	236.1	0.875	1.0	1.0	92.5	−2.7	−3.9	4.8	234.8	2.4	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1

Mean color difference of this page: delta $E^{*\prime}$ = 4.8

TUB-test chart QE04; hue code: H^{*}_{d}=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS   TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

n	HIC*Fd	rgb_Fd			ict_Fd			$h_{si\_F,d}$
648	R00Y_100_100d	1.0	0.0	0.0	1.0	1.0	0.5	390
649	R38Y_100_100d	1.0	0.0	0.125	1.0	1.0	0.5	383
650	R26Y_100_100d	1.0	0.0	0.25	1.0	1.0	0.5	376
651	R13Y_100_100d	1.0	0.0	0.375	1.0	1.0	0.5	368
652	R00Y_100_100d	1.0	0.0	0.5	1.0	1.0	0.5	360
653	B68R_100_100d	1.0	0.0	0.625	1.0	1.0	0.5	352
654	B61R_100_100d	1.0	0.0	0.75	1.0	1.0	0.5	344
655	B55R_100_100d	1.0	0.0	0.875	1.0	1.0	0.5	337
656	B50R_100_100d	1.0	0.0	1.0	1.0	1.0	0.5	330
657	R11Y_100_100d	1.0	0.125	0.0	1.0	1.0	0.5	37
658	R00Y_100_087d	1.0	0.125	0.125	1.0	0.875	0.562	390
659	R36Y_100_087d	1.0	0.125	0.25	1.0	0.875	0.562	382
660	R23Y_100_087d	1.0	0.125	0.375	1.0	0.875	0.562	374
661	R08Y_100_087d	1.0	0.125	0.5	1.0	0.875	0.562	365
662	B70R_100_087d	1.0	0.125	0.625	1.0	0.875	0.562	355
663	B63R_100_087d	1.0	0.125	0.75	1.0	0.875	0.562	346
664	B56R_100_087d	1.0	0.125	0.875	1.0	0.875	0.562	338
665	B50R_100_087d	1.0	0.125	1.0	1.0	0.875	0.562	330
666	R23Y_100_100d	1.0	0.25	0.0	1.0	1.0	0.5	44
667	R13Y_100_087d	1.0	0.25	0.125	1.0	0.875	0.562	38
668	R00Y_100_075d	1.0	0.25	0.25	1.0	0.75	0.625	390
669	R35Y_100_075d	1.0	0.25	0.375	1.0	0.75	0.625	381
670	R18Y_100_075d	1.0	0.25	0.5	1.0	0.75	0.625	371
671	R00Y_100_075d	1.0	0.25	0.625	1.0	0.75	0.625	360
672	B65R_100_075d	1.0	0.25	0.75	1.0	0.75	0.625	349
673	B57R_100_075d	1.0	0.25	0.875	1.0	0.75	0.625	339
674	B50R_100_075d	1.0	0.25	1.0	1.0	0.75	0.625	330
675	R36Y_100_100d	1.0	0.375	0.0	1.0	1.0	0.5	52
676	R26Y_100_087d	1.0	0.375	0.125	1.0	0.875	0.562	46
677	R15Y_100_075d	1.0	0.375	0.25	1.0	0.75	0.625	39
678	R00Y_100_062d	1.0	0.375	0.375	1.0	0.625	0.687	390
679	R31Y_100_062d	1.0	0.375	0.5	1.0	0.625	0.687	379
680	R11Y_100_062d	1.0	0.375	0.625	1.0	0.625	0.687	367
681	B69R_100_062d	1.0	0.375	0.75	1.0	0.625	0.687	353
682	B59R_100_062d	1.0	0.375	0.875	1.0	0.625	0.687	341
683	B50R_100_062d	1.0	0.375	1.0	1.0	0.625	0.687	330
684	R50Y_100_100d	1.0	0.5	0.0	1.0	1.0	0.5	60
685	R41Y_100_087d	1.0	0.5	0.125	1.0	0.875	0.562	55
686	R31Y_100_075d	1.0	0.5	0.25	1.0	0.75	0.625	49
687	R18Y_100_062d	1.0	0.5	0.375	1.0	0.625	0.687	41
688	R00Y_100_050d	1.0	0.5	0.5	1.0	0.5	0.75	390
689	R26Y_100_050d	1.0	0.5	0.625	1.0	0.5	0.75	376
690	R00Y_100_050d	1.0	0.5	0.75	1.0	0.5	0.75	360
691	B61R_100_050d	1.0	0.5	0.875	1.0	0.5	0.75	344
692	B50R_100_050d	1.0	0.5	1.0	1.0	0.5	0.75	330
693	R63Y_100_100d	1.0	0.625	0.0	1.0	1.0	0.5	68
694	R58Y_100_087d	1.0	0.625	0.125	1.0	0.875	0.562	65
695	R50Y_100_075d	1.0	0.625	0.25	1.0	0.75	0.625	60
696	R38Y_100_062d	1.0	0.625	0.375	1.0	0.625	0.687	53
697	R23Y_100_050d	1.0	0.625	0.5	1.0	0.5	0.75	44
698	R00Y_100_037d	1.0	0.625	0.625	1.0	0.375	0.812	390
699	R18Y_100_037d	1.0	0.625	0.75	1.0	0.375	0.812	371
700	B65R_100_037d	1.0	0.625	0.875	1.0	0.375	0.812	349
701	B50R_100_037d	1.0	0.625	1.0	1.0	0.375	0.812	330
702	R76Y_100_100d	1.0	0.75	0.0	1.0	1.0	0.5	76
703	R73Y_100_087d	1.0	0.75	0.125	1.0	0.875	0.562	74
704	R68Y_100_075d	1.0	0.75	0.25	1.0	0.75	0.625	71
705	R61Y_100_062d	1.0	0.75	0.375	1.0	0.625	0.687	67
706	R50Y_100_050d	1.0	0.75	0.5	1.0	0.5	0.75	60
707	R31Y_100_037d	1.0	0.75	0.625	1.0	0.375	0.812	49
708	R00Y_100_025d	1.0	0.75	0.75	1.0	0.25	0.875	390
709	R00Y_100_025d	1.0	0.75	0.875	1.0	0.25	0.875	360
710	B50R_100_025d	1.0	0.75	1.0	1.0	0.25	0.875	330
711	R88Y_100_100d	1.0	0.875	0.0	1.0	1.0	0.5	83
712	R86Y_100_087d	1.0	0.875	0.125	1.0	0.875	0.562	82
713	R85Y_100_075d	1.0	0.875	0.25	1.0	0.75	0.625	81
714	R81Y_100_062d	1.0	0.875	0.375	1.0	0.625	0.687	79
715	R76Y_100_050d	1.0	0.875	0.5	1.0	0.5	0.75	76
716	R68Y_100_037d	1.0	0.875	0.625	1.0	0.375	0.812	71
717	R50Y_100_025d	1.0	0.875	0.75	1.0	0.25	0.875	60
718	R00Y_100_012d	1.0	0.875	0.875	1.0	0.125	0.937	390
719	B50R_100_012d	1.0	0.875	1.0	1.0	0.125	0.937	330
720	Y00G_100_100d	1.0	1.0	0.0	1.0	1.0	0.5	90
721	Y00G_100_087d	1.0	1.0	0.125	1.0	0.875	0.562	90
722	Y00G_100_075d	1.0	1.0	0.25	1.0	0.75	0.625	90
723	Y00G_100_062d	1.0	1.0	0.375	1.0	0.625	0.687	90
724	Y00G_100_050d	1.0	1.0	0.5	1.0	0.5	0.75	90
725	Y00G_100_037d	1.0	1.0	0.625	1.0	0.375	0.812	90
726	Y00G_100_025d	1.0	1.0	0.75	1.0	0.25	0.875	90
727	Y00G_100_012d	1.0	1.0	0.875	1.0	0.125	0.937	90
728	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360

n	rgb*Fd			LabCh*Fd				
648	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
649	1.0	0.0	0.116	47.4	64.4	35.5	73.6	28.9
650	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
651	1.0	0.0	0.366	47.7	66.1	22.3	69.7	18.6
652	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
653	1.0	0.0	0.633	48.0	69.0	6.6	69.3	5.5
654	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
655	1.0	0.0	0.883	48.2	71.7	−4.6	71.8	356.3
656	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
657	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39.9
658	1.0	0.125	0.125	53.3	55.8	36.0	66.5	32.8
659	1.0	0.125	0.241	53.4	56.4	30.4	64.1	28.3
660	1.0	0.125	0.358	53.7	57.1	24.4	62.1	23.2
661	1.0	0.125	0.489	53.7	58.4	16.8	60.8	16.0
662	1.0	0.125	0.635	53.8	60.0	8.2	60.5	7.8
663	1.0	0.125	0.766	54.0	61.5	1.1	61.5	1.0
664	1.0	0.125	0.883	54.1	62.6	−3.5	62.7	356.7
665	1.0	0.125	1.0	54.1	63.7	−7.4	64.1	353.3
666	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
667	1.0	0.241	0.125	57.0	47.4	41.3	62.9	41.0
668	1.0	0.25	0.25	59.3	47.9	30.9	57.0	32.8
669	1.0	0.25	0.362	59.5	48.4	25.4	54.7	27.6
670	1.0	0.25	0.487	59.6	49.3	18.8	52.8	20.9
671	1.0	0.25	0.625	59.6	50.7	10.5	51.8	11.6
672	1.0	0.25	0.762	59.9	52.3	3.0	52.3	3.2
673	1.0	0.25	0.887	60.0	53.5	−2.5	53.6	357.2
674	1.0	0.25	1.0	60.0	54.6	−6.4	55.0	353.3
675	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60.4
676	1.0	0.358	0.125	61.5	37.6	47.3	60.4	51.5
677	1.0	0.362	0.25	63.0	39.6	36.1	53.6	42.3
678	1.0	0.375	0.375	65.4	39.9	25.7	47.5	32.8
679	1.0	0.375	0.489	65.5	40.5	20.1	45.2	26.4
680	1.0	0.375	0.614	65.6	41.4	13.3	43.5	17.8
681	1.0	0.375	0.76	65.8	43.0	4.7	43.3	6.2
682	1.0	0.375	0.885	65.9	44.4	−1.3	44.4	358.3
683	1.0	0.375	1.0	65.9	45.5	−5.3	45.8	353.3
684	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
685	1.0	0.489	0.125	67.3	26.1	55.0	60.9	64.6
686	1.0	0.487	0.25	68.0	28.9	42.8	51.7	55.9
687	1.0	0.489	0.375	69.2	31.3	31.2	44.2	44.9
688	1.0	0.5	0.5	71.4	31.9	20.6	38.0	32.8
689	1.0	0.5	0.616	71.5	32.5	14.8	35.7	24.5
690	1.0	0.5	0.75	71.6	33.8	7.0	34.5	11.6
691	1.0	0.5	0.883	71.8	35.3	−0.1	35.3	359.8
692	1.0	0.5	1.0	71.8	36.4	−4.2	36.6	353.3
693	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82.2
694	1.0	0.635	0.125	74.4	13.2	64.3	65.7	78.3
695	1.0	0.625	0.25	74.2	16.9	50.7	53.4	71.4
696	1.0	0.614	0.375	74.4	20.3	38.0	43.1	61.8
697	1.0	0.616	0.5	75.4	22.9	26.1	34.7	48.7
698	1.0	0.625	0.625	77.4	23.9	15.4	28.5	32.8
699	1.0	0.625	0.743	77.5	24.6	9.4	26.4	20.9
700	1.0	0.625	0.881	77.7	26.1	1.5	26.1	3.2
701	1.0	0.625	1.0	77.7	27.3	−3.2	27.5	353.3
702	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
703	1.0	0.766	0.125	80.6	2.9	71.9	72.0	87.6
704	1.0	0.762	0.25	81.0	5.2	59.6	59.8	84.9
705	1.0	0.76	0.375	81.5	7.4	47.2	47.8	81.0
706	1.0	0.75	0.5	81.3	11.3	33.8	35.6	71.4
707	1.0	0.743	0.625	81.7	14.4	21.4	25.8	55.9
708	1.0	0.75	0.75	83.4	15.9	10.3	19.0	32.8
709	1.0	0.75	0.875	83.5	16.9	3.5	17.2	11.6
710	1.0	0.75	1.0	83.6	18.2	−2.1	18.3	353.3
711	1.0	0.883	0.0	84.5	−6.1	89.8	90.0	93.8
712	1.0	0.883	0.125	85.3	−4.5	77.9	78.0	93.3
713	1.0	0.887	0.25	86.3	−3.0	66.1	66.2	92.6
714	1.0	0.885	0.375	87.0	−1.2	54.1	54.1	91.2
715	1.0	0.883	0.5	87.7	0.5	41.9	41.9	89.2
716	1.0	0.881	0.625	88.2	2.6	29.8	29.9	84.9
717	1.0	0.875	0.75	88.4	5.6	16.9	17.8	71.4
718	1.0	0.875	0.875	89.4	7.9	5.1	9.5	32.8
719	1.0	0.875	1.0	89.5	9.1	−1.0	9.1	353.3
720	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
721	1.0	1.0	0.125	89.2	−10.4	83.2	83.8	97.1
722	1.0	1.0	0.25	90.1	−8.9	71.3	71.9	97.1
723	1.0	1.0	0.375	91.0	−7.4	59.4	59.9	97.1
724	1.0	1.0	0.5	91.9	−5.9	47.5	47.9	97.1
725	1.0	1.0	0.625	92.8	−4.4	35.6	35.9	97.1
726	1.0	1.0	0.75	93.7	−2.9	23.7	23.9	97.1
727	1.0	1.0	0.875	94.5	−1.4	11.8	11.9	97.1
728	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

n	rgb*'Fd			LabCh*'Fd					DE*'Fd	$h_{siM,d}$
648	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	0.0	389
649	1.0	0.0	0.125	47.4	64.4	35.1	73.4	28.6	0.3	383
650	1.0	0.0	0.25	47.7	65.0	28.9	71.2	23.9	0.8	377
651	1.0	0.0	0.375	47.7	66.1	21.8	69.6	18.2	0.4	368
652	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6	0.0	360
653	1.0	0.0	0.625	48.0	68.9	7.1	69.3	5.8	0.4	351
654	1.0	0.0	0.75	48.1	70.4	0.3	70.4	0.3	0.6	342
655	1.0	0.0	0.875	48.2	71.6	−4.3	71.7	356.5	0.2	336
656	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	0.0	330
657	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4	0.7	36
658	1.0	0.125	0.125	51.9	54.5	39.8	67.5	36.1	4.2	389
659	1.0	0.125	0.25	52.3	54.8	32.4	63.7	30.5	2.7	382
660	1.0	0.125	0.375	52.5	55.7	25.4	61.2	24.5	2.0	375
661	1.0	0.125	0.5	52.6	57.3	16.6	59.6	16.1	1.5	365
662	1.0	0.125	0.625	53.2	58.3	8.0	58.8	7.8	1.8	354
663	1.0	0.125	0.75	53.3	60.0	0.9	60.0	0.9	1.6	344
664	1.0	0.125	0.875	53.6	61.1	−4.1	61.2	356.0	1.7	337
665	1.0	0.125	1.0	54.0	62.0	−9.0	62.6	351.6	2.3	330
666	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	1.7	42
667	1.0	0.25	0.125	56.9	43.7	45.0	62.7	45.8	5.2	37
668	1.0	0.25	0.25	57.8	43.2	36.7	56.7	40.3	7.6	389
669	1.0	0.25	0.375	58.2	43.9	29.0	52.6	33.4	5.9	382
670	1.0	0.25	0.5	58.5	45.1	20.1	49.5	24.0	4.4	371
671	1.0	0.25	0.625	59.4	46.0	10.9	47.3	13.3	4.7	360
672	1.0	0.25	0.75	59.6	47.8	2.8	47.9	3.4	4.4	348
673	1.0	0.25	0.875	60.3	48.9	−3.2	49.0	356.2	4.7	337
674	1.0	0.25	1.0	60.4	50.3	−8.3	51.0	350.5	4.6	330
675	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1	0.9	51
676	1.0	0.375	0.125	61.6	34.2	49.9	60.5	55.5	4.2	44
677	1.0	0.375	0.25	62.4	34.2	40.6	53.1	49.9	7.0	37
678	1.0	0.375	0.375	63.8	33.3	31.8	46.1	43.7	9.1	389
679	1.0	0.375	0.5	64.1	34.6	22.9	41.5	33.4	6.6	380
680	1.0	0.375	0.625	65.1	35.3	14.0	38.0	21.7	6.1	367
681	1.0	0.375	0.75	65.7	37.2	4.8	37.5	7.4	5.8	352
682	1.0	0.375	0.875	66.3	38.5	−2.0	38.5	357.0	5.9	339
683	1.0	0.375	1.0	66.5	40.1	−7.4	40.8	349.4	5.8	330
684	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	0.0	59
685	1.0	0.5	0.125	67.0	23.9	55.7	60.6	66.7	2.3	54
686	1.0	0.5	0.25	67.7	24.3	45.3	51.4	61.7	5.2	48
687	1.0	0.5	0.375	68.5	24.9	35.7	43.5	55.0	7.7	39
688	1.0	0.5	0.5	69.7	25.2	25.3	35.7	45.0	8.3	389
689	1.0	0.5	0.625	70.6	26.3	16.0	30.8	31.2	6.3	377
690	1.0	0.5	0.75	71.3	27.8	7.4	28.8	14.9	5.9	360
691	1.0	0.5	0.875	71.8	29.7	−0.2	29.7	359.5	5.6	342
692	1.0	0.5	1.0	72.3	31.2	−6.6	31.9	348.0	5.6	330
693	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7	0.8	68
694	1.0	0.625	0.125	74.4	11.1	64.1	65.0	80.1	2.1	65
695	1.0	0.625	0.25	74.6	12.3	52.5	53.9	76.7	4.9	59
696	1.0	0.625	0.375	75.0	13.8	40.8	43.1	71.2	7.1	52
697	1.0	0.625	0.5	75.9	15.0	29.5	33.1	62.9	8.5	42
698	1.0	0.625	0.625	77.3	15.8	19.5	25.1	50.9	9.0	389
699	1.0	0.625	0.75	77.8	17.6	10.7	20.6	31.2	7.1	371
700	1.0	0.625	0.875	78.9	19.2	2.0	19.3	5.9	7.0	348
701	1.0	0.625	1.0	79.4	21.1	−4.9	21.6	346.9	6.6	330
702	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	1.4	77
703	1.0	0.75	0.125	79.8	2.3	70.3	70.3	88.0	1.9	75
704	1.0	0.75	0.25	80.5	3.1	57.8	57.8	86.8	2.8	71
705	1.0	0.75	0.375	80.9	4.6	45.7	46.0	84.1	3.2	67
706	1.0	0.75	0.5	81.6	6.5	33.0	33.6	78.8	4.8	59
707	1.0	0.75	0.625	82.3	8.5	22.1	23.7	68.9	6.0	48
708	1.0	0.75	0.75	83.2	10.0	12.6	16.2	51.5	6.3	389
709	1.0	0.75	0.875	84.0	11.9	4.1	12.6	19.2	5.0	360
710	1.0	0.75	1.0	84.7	13.9	−3.6	14.4	345.5	4.6	330
711	1.0	0.875	0.0	84.2	−5.7	89.4	89.6	93.6	0.6	83
712	1.0	0.875	0.125	84.7	−5.1	75.8	76.0	93.9	2.2	82
713	1.0	0.875	0.25	85.9	−5.0	63.4	63.6	94.5	3.4	81
714	1.0	0.875	0.375	86.5	−3.6	50.7	50.8	94.1	4.1	80
715	1.0	0.875	0.5	87.5	−2.1	37.5	37.6	93.3	5.1	77
716	1.0	0.875	0.625	88.4	−0.3	26.0	26.0	90.7	4.8	71
717	1.0	0.875	0.75	89.2	1.9	15.4	15.5	82.8	4.0	59
718	1.0	0.875	0.875	89.9	4.0	6.4	7.5	57.8	4.1	389
719	1.0	0.875	1.0	90.7	6.2	−1.9	6.5	342.9	3.1	330
720	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	0.0	89
721	1.0	1.0	0.125	89.0	−11.6	81.2	82.1	98.1	2.2	89
722	1.0	1.0	0.25	89.9	−10.9	67.7	68.6	99.1	4.0	89
723	1.0	1.0	0.375	90.6	−9.8	55.1	56.0	100.1	4.9	89
724	1.0	1.0	0.5	91.8	−8.4	41.3	42.2	101.5	6.6	89
725	1.0	1.0	0.625	92.7	−6.5	29.2	29.9	102.6	6.7	89
726	1.0	1.0	0.75	93.7	−4.5	18.4	19.0	103.8	5.5	89
727	1.0	1.0	0.875	94.8	−2.3	8.8	9.1	105.1	3.2	89
728	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	0.0	360

Mean color difference of this page: **delta *E**' = 3.9**

n	rgb*Md			LabCh*Md				
648	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
649	1.0	0.0	0.116	47.4	64.4	35.5	73.6	28.9
650	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
651	1.0	0.0	0.366	47.7	66.1	22.3	69.7	18.6
652	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
653	1.0	0.0	0.633	48.0	69.0	6.6	69.3	5.5
654	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
655	1.0	0.0	0.883	48.2	71.7	−4.6	71.8	356.3
656	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
657	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39.9
658	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
659	1.0	0.0	0.133	47.4	64.5	34.7	73.2	28.3
660	1.0	0.0	0.266	47.7	65.2	27.9	71.0	23.2
661	1.0	0.0	0.416	47.7	66.7	19.2	69.5	16.0
662	1.0	0.0	0.583	47.9	68.6	9.4	69.2	7.8
663	1.0	0.0	0.733	48.1	70.3	1.3	70.3	1.0
664	1.0	0.0	0.866	48.2	71.5	−4.0	71.7	356.7
665	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
666	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
667	1.0	0.133	0.0	51.5	54.2	47.2	71.9	41.0
668	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
669	1.0	0.0	0.15	47.5	64.6	33.9	72.9	27.6
670	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
671	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
672	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
673	1.0	0.0	0.85	48.2	71.4	−3.3	71.5	357.2
674	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
675	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60.4
676	1.0	0.266	0.0	56.7	43.0	54.1	69.1	51.5
677	1.0	0.15	0.0	52.1	52.8	48.1	71.5	42.3
678	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
679	1.0	0.0	0.183	47.5	64.8	32.2	72.4	26.4
680	1.0	0.0	0.383	47.7	66.3	21.3	69.6	17.8
681	1.0	0.0	0.616	48.0	68.8	7.5	69.2	6.2
682	1.0	0.0	0.816	48.2	71.1	−2.1	71.1	358.3
683	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
684	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
685	1.0	0.416	0.0	63.3	29.8	62.9	69.6	64.6
686	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
687	1.0	0.183	0.0	53.4	50.1	49.9	70.7	44.9
688	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
689	1.0	0.0	0.233	47.6	65.0	29.7	71.5	24.5
690	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
691	1.0	0.0	0.766	48.1	70.6	−0.2	70.6	359.8
692	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
693	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82.2
694	1.0	0.583	0.0	71.5	15.1	73.5	75.0	78.3
695	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
696	1.0	0.383	0.0	61.8	32.5	60.8	69.0	61.8
697	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7
698	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
699	1.0	0.0	0.316	47.7	65.7	25.1	70.4	20.9
700	1.0	0.0	0.683	48.1	69.7	4.0	69.8	3.2
701	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
702	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
703	1.0	0.733	0.0	78.5	3.3	82.2	82.3	87.6
704	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
705	1.0	0.616	0.0	73.2	11.8	75.6	76.6	81.0
706	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
707	1.0	0.316	0.0	58.9	38.6	57.1	69.0	55.9
708	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
709	1.0	0.0	0.5	47.7	67.7	14.0	69.1	11.6
710	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
711	1.0	0.883	0.0	84.5	−6.1	89.8	90.0	93.8
712	1.0	0.866	0.0	83.9	−5.1	89.0	89.2	93.3
713	1.0	0.85	0.0	83.2	−4.0	88.2	88.3	92.6
714	1.0	0.816	0.0	81.9	−1.9	86.5	86.5	91.2
715	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2
716	1.0	0.683	0.0	76.2	7.0	79.5	79.8	84.9
717	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
718	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
719	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
720	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
721	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
722	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
723	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
724	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
725	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
726	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
727	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
728	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

1−0032730−F0   QE040−7N, Page 28/33−F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, Δ*E**'

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS   TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 29/33

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
729	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.4	0.0	0.1	0.1	110.4	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
730	G50B_100_012d	0.875	1.0	1.0	1.0	0.125	0.937	210	0.875	1.0	1.0	90.8	-3.6	-5.4	6.5	236.1	0.875	1.0	1.0	92.0	-3.0	-4.0	5.1	233.1	1.9	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
731	G50B_100_025d	0.75	1.0	1.0	1.0	0.25	0.875	210	0.75	1.0	1.0	86.1	-7.3	-10.9	13.1	236.1	0.75	1.0	1.0	88.2	-5.9	-8.5	10.3	235.3	3.4	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
732	G50B_100_037d	0.625	1.0	1.0	1.0	0.375	0.812	210	0.625	1.0	1.0	81.5	-10.9	-16.4	19.7	236.1	0.625	1.0	1.0	84.1	-8.9	-13.3	16.0	236.0	4.5	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
733	G50B_100_050d	0.5	1.0	1.0	1.0	0.5	0.75	210	0.5	1.0	1.0	76.9	-14.6	-21.8	26.3	236.1	0.5	1.0	1.0	78.9	-12.7	-19.4	23.2	236.6	3.7	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
734	G50B_100_062d	0.375	1.0	1.0	1.0	0.625	0.687	210	0.375	1.0	1.0	72.2	-18.3	-27.3	32.9	236.1	0.375	1.0	1.0	74.2	-16.2	-24.8	29.7	236.8	3.7	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
735	G50B_100_075d	0.25	1.0	1.0	1.0	0.75	0.625	210	0.25	1.0	1.0	67.6	-21.9	-32.8	39.4	236.1	0.25	1.0	1.0	68.6	-20.4	-31.3	37.4	236.8	2.3	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
736	G50B_100_087d	0.125	1.0	1.0	1.0	0.875	0.562	210	0.125	1.0	1.0	62.9	-25.6	-38.2	46.0	236.1	0.125	1.0	1.0	63.3	-24.1	-37.3	44.4	237.1	1.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
737	G50B_100_100d	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1	0.0	1.0	1.0	56.8	-28.8	-44.6	53.1	237.1	1.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
738	R00Y_100_012d	1.0	0.875	0.875	1.0	0.125	0.937	390	1.0	0.875	0.875	89.4	7.9	5.1	9.5	32.8	1.0	0.875	0.875	89.8	3.7	7.3	8.2	63.1	4.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
739	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.4	-0.1	0.0	0.1	197.0	3.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
740	G50B_087_012d	0.75	0.875	0.875	0.875	0.125	0.812	210	0.75	0.875	0.875	81.1	-3.6	-5.4	6.5	236.1	0.75	0.875	0.875	85.8	-3.2	-4.3	5.4	233.2	4.9	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
741	G50B_087_025d	0.625	0.875	0.875	0.875	0.25	0.75	210	0.625	0.875	0.875	76.4	-7.3	-10.9	13.1	236.1	0.625	0.875	0.875	81.8	-6.2	-8.8	10.8	234.7	5.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
742	G50B_087_037d	0.5	0.875	0.875	0.875	0.375	0.687	210	0.5	0.875	0.875	71.8	-10.9	-16.4	19.7	236.1	0.5	0.875	0.875	76.6	-10.0	-14.8	17.9	235.9	5.0	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
743	G50B_087_050d	0.375	0.875	0.875	0.875	0.5	0.625	210	0.375	0.875	0.875	67.1	-14.6	-21.8	26.3	236.1	0.375	0.875	0.875	71.7	-13.8	-20.3	24.6	235.8	4.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
744	G50B_087_062d	0.25	0.875	0.875	0.875	0.625	0.562	210	0.25	0.875	0.875	62.5	-18.3	-27.3	32.9	236.1	0.25	0.875	0.875	65.9	-18.0	-27.0	32.4	236.2	3.4	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
745	G50B_087_075d	0.125	0.875	0.875	0.875	0.75	0.5	210	0.125	0.875	0.875	57.9	-21.9	-32.8	39.4	236.1	0.125	0.875	0.875	60.6	-21.9	-33.0	39.7	236.3	2.7	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
746	G50B_087_087d	0.0	0.875	0.875	0.875	0.875	0.437	210	0.0	0.875	0.875	53.2	-25.6	-38.2	46.0	236.1	0.0	0.875	0.875	54.6	-27.0	-40.0	48.3	235.9	2.7	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
747	R00Y_100_025d	1.0	0.75	0.75	1.0	0.25	0.875	390	1.0	0.75	0.75	83.4	15.9	10.3	19.0	32.8	1.0	0.75	0.75	82.6	10.0	14.2	17.4	54.8	7.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
748	R00Y_087_012d	0.875	0.75	0.75	0.875	0.125	0.812	390	0.875	0.75	0.75	79.7	7.9	5.1	9.5	32.8	0.875	0.75	0.75	83.4	3.7	7.5	8.4	63.6	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
749	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	80.6	-0.2	-0.3	0.4	229.3	4.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
750	G50B_075_012d	0.625	0.75	0.75	0.75	0.125	0.687	210	0.625	0.75	0.75	71.3	-3.6	-5.4	6.5	236.1	0.625	0.75	0.75	77.2	-3.4	-4.5	5.6	233.2	5.9	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
751	G50B_075_025d	0.5	0.75	0.75	0.75	0.25	0.625	210	0.5	0.75	0.75	66.7	-7.3	-10.9	13.1	236.1	0.5	0.75	0.75	72.7	-6.7	-9.5	11.7	234.9	6.1	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
752	G50B_075_037d	0.375	0.75	0.75	0.75	0.375	0.562	210	0.375	0.75	0.75	62.1	-10.9	-16.4	19.7	236.1	0.375	0.75	0.75	67.5	-10.6	-15.4	18.7	235.4	5.4	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
753	G50B_075_050d	0.25	0.75	0.75	0.75	0.5	0.5	210	0.25	0.75	0.75	57.4	-14.6	-21.8	26.3	236.1	0.25	0.75	0.75	62.2	-14.6	-21.5	26.1	235.7	4.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
754	G50B_075_062d	0.125	0.75	0.75	0.75	0.625	0.437	210	0.125	0.75	0.75	52.8	-18.3	-27.3	32.9	236.1	0.125	0.75	0.75	56.3	-19.1	-28.1	34.0	235.7	3.6	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
755	G50B_075_075d	0.0	0.75	0.75	0.75	0.75	0.375	210	0.0	0.75	0.75	48.1	-21.9	-32.8	39.4	236.1	0.0	0.75	0.75	50.7	-24.0	-34.9	42.3	235.4	3.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
756	R00Y_100_037d	1.0	0.625	0.625	1.0	0.375	0.812	390	1.0	0.625	0.625	77.4	23.9	15.4	28.5	32.8	1.0	0.625	0.625	76.3	16.2	21.1	26.6	52.5	9.6	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
757	R00Y_087_025d	0.875	0.625	0.625	0.875	0.25	0.75	390	0.875	0.625	0.625	73.7	15.9	10.3	19.0	32.8	0.875	0.625	0.625	75.6	10.8	14.7	18.3	53.8	7.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
758	R00Y_075_012d	0.75	0.625	0.625	0.75	0.125	0.687	390	0.75	0.625	0.625	70.0	7.9	5.1	9.5	32.8	0.75	0.625	0.625	74.6	4.1	7.3	8.4	60.6	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
759	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.0	-0.3	-0.3	0.4	225.7	6.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
760	G50B_062_012d	0.5	0.625	0.625	0.625	0.125	0.562	210	0.5	0.625	0.625	61.6	-3.6	-5.4	6.5	236.1	0.5	0.625	0.625	68.5	-3.8	-5.1	6.3	233.2	6.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
761	G50B_062_025d	0.375	0.625	0.625	0.625	0.25	0.5	210	0.375	0.625	0.625	57.0	-7.3	-10.9	13.1	236.1	0.375	0.625	0.625	63.8	-7.4	-10.5	12.9	234.7	6.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
762	G50B_062_037d	0.25	0.625	0.625	0.625	0.375	0.437	210	0.25	0.625	0.625	52.3	-10.9	-16.4	19.7	236.1	0.25	0.625	0.625	58.5	-11.7	-16.7	20.4	234.9	6.2	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
763	G50B_062_050d	0.125	0.625	0.625	0.625	0.5	0.375	210	0.125	0.625	0.625	47.7	-14.6	-21.8	26.3	236.1	0.125	0.625	0.625	52.5	-16.4	-23.4	28.6	235.0	5.3	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
764	G50B_062_062d	0.0	0.625	0.625	0.625	0.625	0.312	210	0.0	0.625	0.625	43.1	-18.3	-27.3	32.9	236.1	0.0	0.625	0.625	46.6	-21.2	-30.3	37.0	234.9	5.5	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
765	R00Y_100_050d	1.0	0.5	0.5	1.0	0.5	0.75	390	1.0	0.5	0.5	71.4	31.9	20.6	38.0	32.8	1.0	0.5	0.5	68.0	26.9	26.5	37.8	44.5	8.4	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
766	R00Y_087_037d	0.875	0.5	0.5	0.875	0.375	0.687	390	0.875	0.5	0.5	67.7	23.9	15.4	28.5	32.8	0.875	0.5	0.5	68.9	17.9	21.4	27.9	50.0	8.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
767	R00Y_075_025d	0.75	0.5	0.5	0.75	0.25	0.625	390	0.75	0.5	0.5	64.0	15.9	10.3	19.0	32.8	0.75	0.5	0.5	66.9	11.3	14.3	18.3	51.8	6.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
768	R00Y_062_012d	0.625	0.5	0.5	0.625	0.125	0.562	390	0.625	0.5	0.5	60.2	7.9	5.1	9.5	32.8	0.625	0.5	0.5	66.0	4.8	7.1	8.6	55.4	6.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
769	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	64.6	-0.3	-0.4	0.5	228.4	8.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
770	G50B_050_012d	0.375	0.5	0.5	0.5	0.125	0.437	210	0.375	0.5	0.5	51.9	-3.6	-5.4	6.5	236.1	0.375	0.5	0.5	59.9	-4.0	-5.4	6.8	233.0	8.0	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
771	G50B_050_025d	0.25	0.5	0.5	0.5	0.25	0.375	210	0.249	0.5	0.5	47.3	-7.3	-10.9	13.1	236.1	0.25	0.5	0.5	54.3	-8.5	-11.9	14.6	234.2	7.2	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
772	G50B_050_037d	0.125	0.5	0.5	0.5	0.375	0.312	210	0.124	0.5	0.5	42.6	-10.9	-16.4	19.7	236.1	0.125	0.5	0.5	48.5	-12.9	-18.3	22.5	234.7	6.5	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
773	G50B_050_050d	0.0	0.5	0.5	0.5	0.5	0.25	210	0.0	0.5	0.5	38.0	-14.6	-21.8	26.3	236.1	0.0	0.5	0.5	42.8	-17.9	-25.2	30.9	234.5	6.7	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
774	R00Y_100_062d	1.0	0.375	0.375	1.0	0.625	0.687	390	1.0	0.375	0.375	65.4	39.9	25.7	47.5	32.8	1.0	0.375	0.375	61.0	36.8	32.8	49.3	41.6	8.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
775	R00Y_087_050d	0.875	0.375	0.375	0.875	0.5	0.625	390	0.875	0.375	0.375	61.6	31.9	20.6	38.0	32.8	0.875	0.375	0.375	60.8	28.9	27.3	39.8	43.3	7.4	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
776	R00Y_075_037d	0.75	0.375	0.375	0.75	0.375	0.562	390	0.75	0.375	0.375	57.9	23.9	15.4	28.5	32.8	0.75	0.375	0.375	58.9	21.1	21.1	29.8	44.9	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
777	R00Y_062_025d	0.625	0.375	0.375	0.625	0.25	0.5	390	0.625	0.375	0.375	54.2	15.9	10.3	19.0	32.8	0.625	0.375	0.375	58.3	12.3	14.8	19.3	50.1	7.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
778	R00Y_050_012d	0.5	0.375	0.375	0.5	0.125	0.437	390	0.5	0.375	0.375	50.5	7.9	5.1	9.5	32.8	0.5	0.375	0.375	56.7	5.8	7.5	9.6	52.1	6.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
779	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	55.8	-0.4	-0.4	0.6	227.5	9.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
780	G50B_037_012d	0.25	0.375	0.375	0.375	0.125	0.312	210	0.249	0.375	0.375	42.2	-3.6	-5.4	6.5	236.1	0.25	0.375	0.375	51.0	-4.7	-6.4	8.0	233.5	8.9	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
781	G50B_037_025d	0.125	0.375	0.375	0.375	0.25	0.25	210	0.124	0.375	0.375	37.5	-7.3	-10.9	13.1	236.1	0.125	0.375	0.375	44.9	-9.6	-13.2	16.4	233.9	8.0	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
782	G50B_037_037d	0.0	0.375	0.375	0.375	0.375	0.187	210	0.0	0.375	0.375	32.9	-10.9	-16.4	19.7	236.1	0.0	0.375	0.375	39.4	-14.6	-20.2	24.9	234.0	8.3	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
783	R00Y_100_075d	1.0	0.25	0.25	1.0	0.75	0.625	390	1.0	0.25	0.25	59.3	47.9	30.9	57.0	32.8	1.0	0.25	0.25	54.6	47.5	36.9	60.2	37.8	7.6	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
784	R00Y_087_062d	0.875	0.25	0.25	0.875	0.625	0.562	390	0.875	0.25	0.25	55.6	39.9	25.7	47.5	32.8	0.875	0.25	0.25	53.3	40.8	32.8	52.3	38.7	7.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
785	R00Y_075_050d	0.75	0.25	0.25	0.75	0.5	0.5	390	0.75	0.25	0.25	51.9	31.9	20.6	38.0	32.8	0.75	0.25	0.25	51.0	32.4	27.0	42.2	39.8	6.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
786	R00Y_062_037d	0.625	0.25	0.25	0.625	0.375	0.437	390	0.625	0.25	0.25	48.2	23.9	15.4	28.5	32.8	0.625	0.25	0.25	49.8	23.2	21.3	31.5	42.6	6.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
787	R00Y_050_025d	0.5	0.25	0.25	0.5	0.25	0.375	390	0.5	0.249	0.249	44.5	15.9	10.3	19.0	32.8	0.5	0.25	0.25	47.9	14.9	15.4	21.5	45.9	6.2	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
788	R00Y_037_012d	0.375	0.25	0.25	0.375	0.125	0.312	390	0.375	0.249	0.249	40.8	7.9	5.1	9.5	32.8	0.375	0.25	0.25	47.0	7.0	8.4	10.9	49.9	7.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
789	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	45.9	-0.3	-0.4	0.6	230.8	8.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
790	G50B_025_012d	0.125	0.25	0.25	0.25	0.125	0.187	210	0.124	0.25	0.25	32.5	-3.6	-5.4	6.5	236.1	0.125	0.25	0.25	39.5	-5.8	-7.9	9.8	233.3	7.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
791	G50B_025_025d	0.0	0.25	0.25	0.25	0.25	0.125	210	0.0	0.25	0.25	27.8	-7.3	-10.9	13.1	236.1	0.0	0.25	0.25	34.4	-10.3	-14.1	17.4	233.7	7.8	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
792	R00Y_100_087d	1.0	0.125	0.125	1.0	0.875	0.562	390	1.0	0.125	0.125	53.3	55.8	36.0	66.5	32.8	1.0	0.125	0.125	48.8	58.5	39.5	70.6	34.0	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
793	R00Y_087_075d	0.875	0.125	0.125	0.875	0.75	0.5	390	0.875	0.125	0.125	49.6	47.9	30.9	57.0	32.8	0.875	0.125	0.125	47.0	52.0	35.8	63.2	34.5	6.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
794	R00Y_075_062d	0.75	0.125	0.125	0.75	0.625	0.437	390	0.75	0.125	0.125	45.9	39.9	25.7	47.5	32.8	0.75	0.125	0.125	44.1	43.8	31.0	53.7	35.2	6.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
795	R00Y_062_050d	0.625	0.125	0.125	0.625	0.5	0.375	390	0.625	0.125	0.125	42.2	31.9	20.6	38.0	32.8	0.625	0.125	0.125	42.3	35.2	26.7	44.2	37.1	6.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
796	R00Y_050_037d	0.5	0.125	0.125	0.5	0.375	0.312	390	0.5	0.124	0.124	38.5	23.9	15.4	28.5	32.8	0.5	0.125	0.125	39.6	26.9	21.3	34.3	38.4	6.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
797	R00Y_037_025d	0.375	0.125	0.125	0.375	0.25	0.25	390	0.375	0.124	0.124	34.8	15.9	10.3	19.0	32.8	0.375	0.125	0.125	37.9	17.3	15.7	23.4	42.2	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
798	R00Y_025_012d	0.25	0.125	0.125	0.25	0.125	0.187	390	0.25	0.124	0.124	31.1	7.9	5.1	9.5	32.8	0.25	0.125	0.125	36.0	8.5	9.4	12.7	48.0	6.5	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
799	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	31.4	-0.2	-0.1	0.2	212.6	4.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
800	G50B_012_012d	0.0	0.125	0.125	0.125	0.125	0.062	210	0.0	0.125	0.125	22.7	-3.6	-5.4	6.5	236.1	0.0	0.125	0.125	26.4	-5.3	-6.7	8.6	231.7	4.1	210	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
801	R00Y_100_100d	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	45.0	66.1	40.5	77.5	31.5	3.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
802	R00Y_087_087d	0.875	0.0	0.0	0.875	0.875	0.437	390	0.875	0.0	0.0	43.6	55.8	36.0	66.5	32.8	0.875	0.0	0.0	42.5	60.9	36.6	71.1	30.9	5.2	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
803	R00Y_075_075d	0.75	0.0	0.0	0.75	0.75	0.375	390	0.75	0.0	0.0	39.9	47.9	30.9	57.0	32.8	0.75	0.0	0.0	39.2	53.4	32.3	62.5	31.1	5.8	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
804	R00Y_062_062d	0.625	0.0	0.0	0.625	0.625	0.312	390	0.625	0.0	0.0	36.2	39.9	25.7	47.5	32.8	0.625	0.0	0.0	36.4	45.9	27.6	53.6	31.0	6.3	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
805	R00Y_050_050d	0.5	0.0	0.0	0.5	0.5	0.25	390	0.5	0.0	0.0	32.5	31.9	20.6	38.0	32.8	0.5	0.0	0.0	33.0	38.2	23.9	45.1	32.0	7.1	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
806	R00Y_037_037d	0.375	0.0	0.0	0.375	0.375	0.187	390	0.375	0.0	0.0	28.8	23.9	15.4	28.5	32.8	0.375	0.0	0.0	30.8	28.9	20.0	35.1	34.7	7.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
807	R00Y_025_025d	0.25	0.0	0.0	0.25	0.25	0.125	390	0.25	0.0	0.0	25.1	15.9	10.3	19.0	32.8	0.25	0.0	0.0	28.1	18.4	14.5	23.5	38.2	5.7	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
808	R00Y_012_012d	0.125	0.0	0.0	0.125	0.125	0.062	390	0.125	0.0	0.0	21.4	7.9	5.1	9.5	32.8	0.125	0.0	0.0	23.6	7.7	7.1	10.5	42.9	3.0	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
809	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.0	0.4	0.4	77.0	2.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: delta $E^{*\prime}$ = 5.8

1-0032830-F0   QE040-7N, Page 29/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

QE0400L

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 30/33

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
810	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.5	0.0	0.0	0.0	103.6	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
811	B00R_100_012d	0.875	0.875	1.0	1.0	0.125	0.937	270	0.875	0.875	1.0	86.7	2.9	−5.9	6.6	296.4	0.875	0.875	1.0	87.3	3.1	−5.9	6.7	297.6	0.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
812	B00R_100_025d	0.75	0.75	1.0	1.0	0.25	0.875	270	0.75	0.75	1.0	77.9	5.8	−11.8	13.2	296.4	0.75	0.75	1.0	78.1	7.6	−11.5	13.8	303.7	1.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
813	B00R_100_037d	0.625	0.625	1.0	1.0	0.375	0.812	270	0.625	0.625	1.0	69.1	8.8	−17.7	19.8	296.4	0.625	0.625	1.0	69.3	10.9	−17.1	20.3	302.6	2.2	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
814	B00R_100_050d	0.5	0.5	1.0	1.0	0.5	0.75	270	0.5	0.5	1.0	60.4	11.7	−23.6	26.4	296.4	0.5	0.5	1.0	57.8	16.5	−23.8	29.0	304.7	5.4	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
815	B00R_100_062d	0.375	0.375	1.0	1.0	0.625	0.687	270	0.375	0.375	1.0	51.6	14.6	−29.5	33.0	296.4	0.375	0.375	1.0	48.2	20.2	−29.9	36.1	304.0	6.4	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
816	B00R_100_075d	0.25	0.25	1.0	1.0	0.75	0.625	270	0.25	0.25	1.0	42.8	17.6	−35.5	39.6	296.4	0.25	0.25	1.0	39.8	22.9	−35.5	42.2	302.8	6.1	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
817	B00R_100_087d	0.125	0.125	1.0	1.0	0.875	0.562	270	0.125	0.125	1.0	34.1	20.5	−41.4	46.2	296.4	0.125	0.125	1.0	31.0	26.8	−41.1	49.1	303.1	6.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
818	B00R_100_100d	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	24.6	25.2	−46.7	53.0	298.3	1.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
819	Y00G_100_012d	1.0	1.0	0.875	1.0	0.125	0.937	90	1.0	1.0	0.875	94.5	−1.4	11.8	11.9	97.1	1.0	1.0	0.875	94.5	−2.6	9.6	10.0	105.1	2.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
820	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.3	−0.1	0.0	0.1	221.7	3.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
821	B00R_087_012d	0.75	0.75	0.875	0.875	0.125	0.812	270	0.75	0.75	0.875	76.9	2.9	−5.9	6.6	296.4	0.75	0.75	0.875	81.3	3.0	−5.9	6.7	296.9	4.3	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
822	B00R_087_025d	0.625	0.625	0.875	0.875	0.25	0.75	270	0.625	0.625	0.875	68.2	5.8	−11.8	13.2	296.4	0.625	0.625	0.875	71.3	8.0	−11.8	14.2	304.1	3.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
823	B00R_087_037d	0.5	0.5	0.875	0.875	0.375	0.687	270	0.5	0.5	0.875	59.4	8.8	−17.7	19.8	296.4	0.5	0.5	0.875	61.0	10.8	−18.5	21.5	300.3	2.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
824	B00R_087_050d	0.375	0.375	0.875	0.875	0.5	0.625	270	0.375	0.375	0.875	50.6	11.7	−23.6	26.4	296.4	0.375	0.375	0.875	50.7	15.9	−24.5	29.2	302.9	4.2	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
825	B00R_087_062d	0.25	0.25	0.875	0.875	0.625	0.562	270	0.25	0.25	0.875	41.9	14.6	−29.5	33.0	296.4	0.25	0.25	0.875	40.6	20.0	−31.2	37.1	302.7	5.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
826	B00R_087_075d	0.125	0.125	0.875	0.875	0.75	0.5	270	0.125	0.125	0.875	33.1	17.6	−35.5	39.6	296.4	0.125	0.125	0.875	30.9	24.7	−37.5	44.9	303.4	7.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
827	B00R_087_087d	0.0	0.0	0.875	0.875	0.875	0.437	270	0.0	0.0	0.875	24.3	20.5	−41.4	46.2	296.4	0.0	0.0	0.875	24.1	24.1	−43.0	49.3	299.2	3.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
828	Y00G_100_025d	1.0	1.0	0.75	1.0	0.25	0.875	90	1.0	1.0	0.75	93.7	−2.9	23.7	23.9	97.1	1.0	1.0	0.75	93.4	−4.7	19.8	20.4	103.5	4.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
829	Y00G_087_012d	0.875	0.875	0.75	0.875	0.125	0.812	90	0.875	0.875	0.75	84.8	−1.4	11.8	11.9	97.1	0.875	0.875	0.75	88.3	−2.7	9.9	10.3	105.6	4.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
830	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	80.6	−0.2	−0.2	0.3	226.5	4.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
831	B00R_075_012d	0.625	0.625	0.75	0.75	0.125	0.687	270	0.625	0.625	0.75	67.2	2.9	−5.9	6.6	296.4	0.625	0.625	0.75	72.4	3.2	−6.3	7.0	297.0	5.2	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
832	B00R_075_025d	0.5	0.5	0.75	0.75	0.25	0.625	270	0.5	0.5	0.75	58.4	5.8	−11.8	13.2	296.4	0.5	0.5	0.75	61.9	7.6	−12.2	14.4	301.8	3.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
833	B00R_075_037d	0.375	0.375	0.75	0.75	0.375	0.562	270	0.375	0.375	0.75	49.7	8.8	−17.7	19.8	296.4	0.375	0.375	0.75	51.3	12.0	−18.9	22.4	302.3	3.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
834	B00R_075_050d	0.25	0.25	0.75	0.75	0.5	0.5	270	0.25	0.25	0.75	40.9	11.7	−23.6	26.4	296.4	0.25	0.25	0.75	41.0	16.5	−25.3	30.2	303.1	5.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
835	B00R_075_062d	0.125	0.125	0.75	0.75	0.625	0.437	270	0.125	0.125	0.75	32.1	14.6	−29.5	33.0	296.4	0.125	0.125	0.75	30.7	21.2	−32.0	38.4	303.4	7.1	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
836	B00R_075_075d	0.0	0.0	0.75	0.75	0.75	0.375	270	0.0	0.0	0.75	23.4	17.6	−35.5	39.6	296.4	0.0	0.0	0.75	22.9	23.0	−37.8	44.3	301.2	5.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
837	Y00G_100_037d	1.0	1.0	0.625	1.0	0.375	0.812	90	1.0	1.0	0.625	92.8	−4.4	35.6	35.9	97.1	1.0	1.0	0.625	92.4	−6.8	31.3	32.0	102.2	4.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
838	Y00G_087_025d	0.875	0.875	0.625	0.875	0.25	0.75	90	0.875	0.875	0.625	83.9	−2.9	23.7	23.9	97.1	0.875	0.875	0.625	87.4	−5.1	20.9	21.5	103.7	4.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
839	Y00G_075_012d	0.75	0.75	0.625	0.75	0.125	0.687	90	0.75	0.75	0.625	75.1	−1.4	11.8	11.9	97.1	0.75	0.75	0.625	79.9	−2.9	9.9	10.3	106.4	5.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
840	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.1	−0.3	−0.3	0.4	227.4	6.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
841	B00R_062_012d	0.5	0.5	0.625	0.625	0.125	0.562	270	0.5	0.5	0.625	57.5	2.9	−5.9	6.6	296.4	0.5	0.5	0.625	63.5	3.3	−6.7	7.5	296.6	6.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
842	B00R_062_025d	0.375	0.375	0.625	0.625	0.25	0.5	270	0.375	0.375	0.625	48.7	5.8	−11.8	13.2	296.4	0.375	0.375	0.625	53.2	7.4	−12.9	14.9	300.0	4.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
843	B00R_062_037d	0.25	0.25	0.625	0.625	0.375	0.437	270	0.25	0.25	0.625	40.0	8.8	−17.7	19.8	296.4	0.25	0.25	0.625	42.4	12.3	−19.6	23.1	302.1	4.6	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
844	B00R_062_050d	0.125	0.125	0.625	0.625	0.5	0.375	270	0.125	0.125	0.625	31.2	11.7	−23.6	26.4	296.4	0.125	0.125	0.625	31.3	17.4	−26.7	31.9	303.1	6.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
845	B00R_062_062d	0.0	0.0	0.625	0.625	0.625	0.312	270	0.0	0.0	0.625	22.4	14.6	−29.5	33.0	296.4	0.0	0.0	0.625	22.1	20.7	−33.4	39.3	301.7	7.2	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
846	Y00G_100_050d	1.0	1.0	0.5	1.0	0.5	0.75	90	1.0	1.0	0.5	91.9	−5.9	47.5	47.9	97.1	1.0	1.0	0.5	91.4	−8.5	43.3	44.2	101.1	4.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
847	Y00G_087_037d	0.875	0.875	0.5	0.875	0.375	0.687	90	0.875	0.875	0.5	83.0	−4.4	35.6	35.9	97.1	0.875	0.875	0.5	86.3	−7.0	32.3	33.1	102.3	5.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
848	Y00G_075_025d	0.75	0.75	0.5	0.75	0.25	0.625	90	0.75	0.75	0.5	74.2	−2.9	23.7	23.9	97.1	0.75	0.75	0.5	78.9	−5.2	21.2	21.8	103.9	5.7	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
849	Y00G_062_012d	0.625	0.625	0.5	0.625	0.125	0.562	90	0.625	0.625	0.5	65.4	−1.4	11.8	11.9	97.1	0.625	0.625	0.5	72.3	−3.0	10.1	10.6	106.8	7.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
850	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	64.4	−0.3	−0.4	0.5	227.7	7.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
851	B00R_050_012d	0.375	0.375	0.5	0.5	0.125	0.437	270	0.375	0.375	0.5	47.8	2.9	−5.9	6.6	296.4	0.375	0.375	0.5	54.0	4.1	−7.2	8.3	299.7	6.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
852	B00R_050_025d	0.25	0.25	0.5	0.5	0.25	0.375	270	0.249	0.249	0.5	39.0	5.8	−11.8	13.2	296.4	0.25	0.25	0.5	43.2	8.1	−14.2	16.4	299.8	5.3	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
853	B00R_050_037d	0.125	0.125	0.5	0.5	0.375	0.312	270	0.124	0.124	0.5	30.2	8.8	−17.7	19.8	296.4	0.125	0.125	0.5	31.5	14.1	−21.3	25.6	303.5	6.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
854	B00R_050_050d	0.0	0.0	0.5	0.5	0.5	0.25	270	0.0	0.0	0.5	21.5	11.7	−23.6	26.4	296.4	0.0	0.0	0.5	21.7	18.4	−27.7	33.3	303.5	7.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
855	Y00G_100_062d	1.0	1.0	0.375	1.0	0.625	0.687	90	1.0	1.0	0.375	91.0	−7.4	59.4	59.9	97.1	1.0	1.0	0.375	90.3	−9.7	56.3	57.1	99.8	3.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
856	Y00G_087_050d	0.875	0.875	0.375	0.875	0.5	0.625	90	0.875	0.875	0.375	82.2	−5.9	47.5	47.9	97.1	0.875	0.875	0.375	85.4	−8.7	45.2	46.0	100.9	4.8	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
857	Y00G_075_037d	0.75	0.75	0.375	0.75	0.375	0.562	90	0.75	0.75	0.375	73.3	−4.4	35.6	35.9	97.1	0.75	0.75	0.375	78.0	−7.3	33.6	34.4	102.3	5.8	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
858	Y00G_062_025d	0.625	0.625	0.375	0.625	0.25	0.5	90	0.625	0.625	0.375	64.5	−2.9	23.7	23.9	97.1	0.625	0.625	0.375	71.2	−5.5	22.2	22.9	104.0	7.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
859	Y00G_050_012d	0.5	0.5	0.375	0.5	0.125	0.437	90	0.5	0.5	0.375	55.7	−1.4	11.8	11.9	97.1	0.5	0.5	0.375	63.7	−3.3	10.9	11.4	107.1	8.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
860	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	56.4	−0.4	−0.5	0.6	232.7	9.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
861	B00R_037_012d	0.25	0.25	0.375	0.375	0.125	0.312	270	0.249	0.249	0.375	38.1	2.9	−5.9	6.6	296.4	0.25	0.25	0.375	44.6	4.6	−8.0	9.2	300.2	7.1	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
862	B00R_037_025d	0.125	0.125	0.375	0.375	0.25	0.25	270	0.124	0.124	0.375	29.3	5.8	−11.8	13.2	296.4	0.125	0.125	0.375	33.4	9.3	−15.2	17.8	301.4	6.3	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
863	B00R_037_037d	0.0	0.0	0.375	0.375	0.375	0.187	270	0.0	0.0	0.375	20.5	8.8	−17.7	19.8	296.4	0.0	0.0	0.375	22.2	15.1	−22.2	26.9	304.1	7.9	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
864	Y00G_100_075d	1.0	1.0	0.25	1.0	0.75	0.625	90	1.0	1.0	0.25	90.1	−8.9	71.3	71.9	97.1	1.0	1.0	0.25	89.5	−10.5	68.6	69.4	98.7	3.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
865	Y00G_087_062d	0.875	0.875	0.25	0.875	0.625	0.562	90	0.875	0.875	0.25	81.3	−7.4	59.4	59.9	97.1	0.875	0.875	0.25	84.3	−9.9	59.1	60.0	99.5	3.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
866	Y00G_075_050d	0.75	0.75	0.25	0.75	0.5	0.5	90	0.75	0.75	0.25	72.4	−5.9	47.5	47.9	97.1	0.75	0.75	0.25	76.8	−8.9	47.6	48.5	100.6	5.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
867	Y00G_062_037d	0.625	0.625	0.25	0.625	0.375	0.437	90	0.625	0.625	0.25	63.6	−4.4	35.6	35.9	97.1	0.625	0.625	0.25	69.9	−7.5	35.4	36.2	102.0	7.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
868	Y00G_050_025d	0.5	0.5	0.25	0.5	0.25	0.375	90	0.5	0.5	0.249	54.8	−2.9	23.7	23.9	97.1	0.5	0.5	0.25	62.3	−5.8	23.7	24.4	103.9	8.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
869	Y00G_037_012d	0.375	0.375	0.25	0.375	0.125	0.312	90	0.375	0.375	0.249	45.9	−1.4	11.8	11.9	97.1	0.375	0.375	0.25	55.0	−3.6	12.2	12.7	106.7	9.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
870	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	46.2	−0.3	−0.5	0.6	234.5	9.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
871	B00R_025_012d	0.125	0.125	0.25	0.25	0.125	0.187	270	0.124	0.124	0.25	28.3	2.9	−5.9	6.6	296.4	0.125	0.125	0.25	33.0	4.9	−9.2	10.4	298.0	6.0	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
872	B00R_025_025d	0.0	0.0	0.25	0.25	0.25	0.125	270	0.0	0.0	0.25	19.6	5.8	−11.8	13.2	296.4	0.0	0.0	0.25	22.6	10.9	−15.3	18.8	305.6	6.8	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
873	Y00G_100_087d	1.0	1.0	0.125	1.0	0.875	0.562	90	1.0	1.0	0.125	89.2	−10.4	83.2	83.8	97.1	1.0	1.0	0.125	88.7	−11.1	81.0	81.8	97.8	2.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
874	Y00G_087_075d	0.875	0.875	0.125	0.875	0.75	0.5	90	0.875	0.875	0.125	80.4	−8.9	71.3	71.9	97.1	0.875	0.875	0.125	83.5	−10.7	71.8	72.6	98.5	3.5	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
875	Y00G_075_062d	0.75	0.75	0.125	0.75	0.625	0.437	90	0.75	0.75	0.125	71.5	−7.4	59.4	59.9	97.1	0.75	0.75	0.125	76.1	−9.9	60.2	61.0	99.3	5.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
876	Y00G_062_050d	0.625	0.625	0.125	0.625	0.5	0.375	90	0.625	0.625	0.125	62.7	−5.9	47.5	47.9	97.1	0.625	0.625	0.125	68.8	−9.0	49.6	50.4	100.3	7.1	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
877	Y00G_050_037d	0.5	0.5	0.125	0.5	0.375	0.312	90	0.5	0.5	0.124	53.9	−4.4	35.6	35.9	97.1	0.5	0.5	0.125	61.2	−7.8	38.2	39.0	101.5	8.4	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
878	Y00G_037_025d	0.375	0.375	0.125	0.375	0.25	0.25	90	0.375	0.375	0.124	45.0	−2.9	23.7	23.9	97.1	0.375	0.375	0.125	53.9	−6.2	26.3	27.1	103.2	9.7	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
879	Y00G_025_012d	0.25	0.25	0.125	0.25	0.125	0.187	90	0.25	0.25	0.124	36.2	−1.4	11.8	11.9	97.1	0.25	0.25	0.125	44.8	−4.0	14.1	14.7	105.9	9.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
880	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	31.9	−0.1	−0.1	0.2	218.3	4.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
881	B00R_012_012d	0.0	0.0	0.125	0.125	0.125	0.062	270	0.0	0.0	0.125	18.6	2.9	−5.9	6.6	296.4	0.0	0.0	0.125	21.1	5.2	−7.3	9.0	305.5	3.7	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
882	Y00G_100_100d	1.0	1.0	0.0	1.0	1.0	0.5	90	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	1.0	1.0	0.0	87.9	−11.4	94.4	95.1	96.9	0.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
883	Y00G_087_087d	0.875	0.875	0.0	0.875	0.875	0.437	90	0.875	0.875	0.0	79.5	−10.4	83.2	83.8	97.1	0.875	0.875	0.0	82.3	−11.2	84.8	85.5	97.5	3.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
884	Y00G_075_075d	0.75	0.75	0.0	0.75	0.75	0.375	90	0.75	0.75	0.0	70.7	−8.9	71.3	71.9	97.1	0.75	0.75	0.0	74.9	−10.7	73.9	74.7	98.2	5.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
885	Y00G_062_062d	0.625	0.625	0.0	0.625	0.625	0.312	90	0.625	0.625	0.0	61.8	−7.4	59.4	59.9	97.1	0.625	0.625	0.0	67.4	−9.9	62.9	63.7	98.9	7.0	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
886	Y00G_050_050d	0.5	0.5	0.0	0.5	0.5	0.25	90	0.5	0.5	0.0	53.0	−5.9	47.5	47.9	97.1	0.5	0.5	0.0	60.1	−9.0	51.5	52.3	99.9	8.7	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
887	Y00G_037_037d	0.375	0.375	0.0	0.375	0.375	0.187	90	0.375	0.375	0.0	44.2	−4.4	35.6	35.9	97.1	0.375	0.375	0.0	52.3	−7.7	39.3	40.1	101.1	9.5	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
888	Y00G_025_025d	0.25	0.25	0.0	0.25	0.25	0.125	90	0.25	0.25	0.0	35.3	−2.9	23.7	23.9	97.1	0.25	0.25	0.0	43.4	−6.0	26.1	26.8	103.0	8.9	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
889	Y00G_012_012d	0.125	0.125	0.0	0.125	0.125	0.062	90	0.125	0.125	0.0	26.5	−1.4	11.8	11.9	97.1	0.125	0.125	0.0	30.3	−3.2	11.0	11.5	106.5	4.2	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
890	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	0.1	0.4	0.4	75.8	2.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: **delta $E^{*\prime}$ = 5.5**

1-0032930-F0

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

see similar files: http://130.149.60.45/~farbmetrik/QE04/QE04.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

1-0032930-F0

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 31/33

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd				
891	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
892	B50R_100_012d	1.0	0.875	1.0	1.0	0.125	0.937	330	1.0	0.875	1.0	89.5	9.1	−1.0	9.1	353.3
893	B50R_100_025d	1.0	0.75	1.0	1.0	0.25	0.875	330	1.0	0.75	1.0	83.6	18.2	−2.1	18.3	353.3
894	B50R_100_037d	1.0	0.625	1.0	1.0	0.375	0.812	330	1.0	0.625	1.0	77.7	27.3	−3.2	27.5	353.3
895	B50R_100_050d	1.0	0.5	1.0	1.0	0.5	0.75	330	1.0	0.5	1.0	71.8	36.4	−4.2	36.6	353.3
896	B50R_100_062d	1.0	0.375	1.0	1.0	0.625	0.687	330	1.0	0.375	1.0	65.9	45.5	−5.3	45.8	353.3
897	B50R_100_075d	1.0	0.25	1.0	1.0	0.75	0.625	330	1.0	0.25	1.0	60.0	54.6	−6.4	55.0	353.3
898	B50R_100_087d	1.0	0.125	1.0	1.0	0.875	0.562	330	1.0	0.125	1.0	54.1	63.7	−7.4	64.1	353.3
899	B50R_100_100d	1.0	0.0	1.0	1.0	1.0	0.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
900	G00B_100_012d	0.875	1.0	0.875	1.0	0.125	0.937	150	0.875	1.0	0.875	90.0	−8.6	3.5	9.2	157.7
901	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0
902	B50R_087_012d	0.875	0.75	0.875	0.875	0.125	0.812	330	0.875	0.75	0.875	79.8	9.1	−1.0	9.1	353.3
903	B50R_087_025d	0.875	0.625	0.875	0.875	0.25	0.75	330	0.875	0.625	0.875	73.9	18.2	−2.1	18.3	353.3
904	B50R_087_037d	0.875	0.5	0.875	0.875	0.375	0.687	330	0.875	0.5	0.875	68.0	27.3	−3.2	27.5	353.3
905	B50R_087_050d	0.875	0.375	0.875	0.875	0.5	0.625	330	0.875	0.375	0.875	62.1	36.4	−4.2	36.6	353.3
906	B50R_087_062d	0.875	0.25	0.875	0.875	0.625	0.562	330	0.875	0.25	0.875	56.2	45.5	−5.3	45.8	353.3
907	B50R_087_075d	0.875	0.125	0.875	0.875	0.75	0.5	330	0.875	0.125	0.875	50.3	54.6	−6.4	55.0	353.3
908	B50R_087_087d	0.875	0.0	0.875	0.875	0.875	0.437	330	0.875	0.0	0.875	44.4	63.7	−7.4	64.1	353.3
909	G00B_100_025d	0.75	1.0	0.75	1.0	0.25	0.875	150	0.75	1.0	0.75	84.5	−17.2	7.0	18.5	157.7
910	G00B_087_012d	0.75	0.875	0.75	0.875	0.125	0.812	150	0.75	0.875	0.75	80.3	−8.6	3.5	9.2	157.7
911	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0
912	B50R_075_012d	0.75	0.625	0.75	0.75	0.125	0.687	330	0.75	0.625	0.75	70.1	9.1	−1.0	9.1	353.3
913	B50R_075_025d	0.75	0.5	0.75	0.75	0.25	0.625	330	0.75	0.5	0.75	64.2	18.2	−2.1	18.3	353.3
914	B50R_075_037d	0.75	0.375	0.75	0.75	0.375	0.562	330	0.75	0.375	0.75	58.3	27.3	−3.2	27.5	353.3
915	B50R_075_050d	0.75	0.25	0.75	0.75	0.5	0.5	330	0.75	0.25	0.75	52.4	36.4	−4.2	36.6	353.3
916	B50R_075_062d	0.75	0.125	0.75	0.75	0.625	0.437	330	0.75	0.125	0.75	46.5	45.5	−5.3	45.8	353.3
917	B50R_075_075d	0.75	0.0	0.75	0.75	0.75	0.375	330	0.75	0.0	0.75	40.6	54.6	−6.4	55.0	353.3
918	G00B_100_037d	0.625	1.0	0.625	1.0	0.375	0.812	150	0.625	1.0	0.625	79.1	−25.8	10.5	27.8	157.7
919	G00B_087_025d	0.625	0.875	0.625	0.875	0.25	0.75	150	0.625	0.875	0.625	74.8	−17.2	7.0	18.5	157.7
920	G00B_075_012d	0.625	0.75	0.625	0.75	0.125	0.687	150	0.625	0.75	0.625	70.5	−8.6	3.5	9.2	157.7
921	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0
922	B50R_062_012d	0.625	0.5	0.625	0.625	0.125	0.562	330	0.625	0.5	0.625	60.4	9.1	−1.0	9.1	353.3
923	B50R_062_025d	0.625	0.375	0.625	0.625	0.25	0.5	330	0.625	0.375	0.625	54.5	18.2	−2.1	18.3	353.3
924	B50R_062_037d	0.625	0.25	0.625	0.625	0.375	0.437	330	0.625	0.25	0.625	48.6	27.3	−3.2	27.5	353.3
925	B50R_062_050d	0.625	0.125	0.625	0.625	0.5	0.375	330	0.625	0.125	0.625	42.7	36.4	−4.2	36.6	353.3
926	B50R_062_062d	0.625	0.0	0.625	0.625	0.625	0.312	330	0.625	0.0	0.625	36.8	45.5	−5.3	45.8	353.3
927	G00B_100_050d	0.5	1.0	0.5	1.0	0.5	0.75	150	0.5	1.0	0.5	73.7	−34.4	14.0	37.1	157.7
928	G00B_087_037d	0.5	0.875	0.5	0.875	0.375	0.687	150	0.5	0.875	0.5	69.4	−25.8	10.5	27.8	157.7
929	G00B_075_025d	0.5	0.75	0.5	0.75	0.25	0.625	150	0.5	0.75	0.5	65.1	−17.2	7.0	18.5	157.7
930	G00B_062_012d	0.5	0.625	0.5	0.625	0.125	0.562	150	0.5	0.625	0.5	60.8	−8.6	3.5	9.2	157.7
931	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0
932	B50R_050_012d	0.5	0.375	0.5	0.5	0.125	0.437	330	0.5	0.375	0.5	50.6	9.1	−1.0	9.1	353.3
933	B50R_050_025d	0.5	0.25	0.5	0.5	0.25	0.375	330	0.5	0.249	0.5	44.7	18.2	−2.1	18.3	353.3
934	B50R_050_037d	0.5	0.125	0.5	0.5	0.375	0.312	330	0.5	0.124	0.5	38.8	27.3	−3.2	27.5	353.3
935	B50R_050_050d	0.5	0.0	0.5	0.5	0.5	0.25	330	0.5	0.0	0.5	32.9	36.4	−4.2	36.6	353.3
936	G00B_100_062d	0.375	1.0	0.375	1.0	0.625	0.687	150	0.375	1.0	0.375	68.2	−43.0	17.5	46.4	157.7
937	G00B_087_050d	0.375	0.875	0.375	0.875	0.5	0.625	150	0.375	0.875	0.375	63.9	−34.4	14.0	37.1	157.7
938	G00B_075_037d	0.375	0.75	0.375	0.75	0.375	0.562	150	0.375	0.75	0.375	59.7	−25.8	10.5	27.8	157.7
939	G00B_062_025d	0.375	0.625	0.375	0.625	0.25	0.5	150	0.375	0.625	0.375	55.4	−17.2	7.0	18.5	157.7
940	G00B_050_012d	0.375	0.5	0.375	0.5	0.125	0.437	150	0.375	0.5	0.375	51.1	−8.6	3.5	9.2	157.7
941	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0
942	B50R_037_012d	0.375	0.25	0.375	0.375	0.125	0.312	330	0.375	0.249	0.375	40.9	9.1	−1.0	9.1	353.3
943	B50R_037_025d	0.375	0.125	0.375	0.375	0.25	0.25	330	0.375	0.124	0.375	35.0	18.2	−2.1	18.3	353.3
944	B50R_037_037d	0.375	0.0	0.375	0.375	0.375	0.187	330	0.375	0.0	0.375	29.1	27.3	−3.2	27.5	353.3
945	G00B_100_075d	0.25	1.0	0.25	1.0	0.75	0.625	150	0.25	1.0	0.25	62.8	−51.6	21.0	55.7	157.7
946	G00B_087_062d	0.25	0.875	0.25	0.875	0.625	0.562	150	0.25	0.875	0.25	58.5	−43.0	17.5	46.4	157.7
947	G00B_075_050d	0.25	0.75	0.25	0.75	0.5	0.5	150	0.25	0.75	0.25	54.2	−34.4	14.0	37.1	157.7
948	G00B_062_037d	0.25	0.625	0.25	0.625	0.375	0.437	150	0.25	0.625	0.25	49.9	−25.8	10.5	27.8	157.7
949	G00B_050_025d	0.25	0.5	0.25	0.5	0.25	0.375	150	0.249	0.5	0.249	45.7	−17.2	7.0	18.5	157.7
950	G00B_037_012d	0.25	0.375	0.25	0.375	0.125	0.312	150	0.249	0.375	0.249	41.4	−8.6	3.5	9.2	157.7
951	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0
952	B50R_025_012d	0.25	0.125	0.25	0.25	0.125	0.187	330	0.25	0.124	0.25	31.2	9.1	−1.0	9.1	353.3
953	B50R_025_025d	0.25	0.0	0.25	0.25	0.25	0.125	330	0.25	0.0	0.25	25.3	18.2	−2.1	18.3	353.3
954	G00B_100_087d	0.125	1.0	0.125	1.0	0.875	0.562	150	0.125	1.0	0.125	57.3	−60.2	24.6	65.0	157.7
955	G00B_087_075d	0.125	0.875	0.125	0.875	0.75	0.5	150	0.125	0.875	0.125	53.1	−51.6	21.0	55.7	157.7
956	G00B_075_062d	0.125	0.75	0.125	0.75	0.625	0.437	150	0.125	0.75	0.125	48.8	−43.0	17.5	46.4	157.7
957	G00B_062_050d	0.125	0.625	0.125	0.625	0.5	0.375	150	0.125	0.625	0.125	44.5	−34.4	14.0	37.1	157.7
958	G00B_050_037d	0.125	0.5	0.125	0.5	0.375	0.312	150	0.124	0.5	0.124	40.2	−25.8	10.5	27.8	157.7
959	G00B_037_025d	0.125	0.375	0.125	0.375	0.25	0.25	150	0.124	0.375	0.124	35.9	−17.2	7.0	18.5	157.7
960	G00B_025_012d	0.125	0.25	0.125	0.25	0.125	0.187	150	0.124	0.25	0.124	31.7	−8.6	3.5	9.2	157.7
961	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0
962	B50R_012_012d	0.125	0.0	0.125	0.125	0.125	0.062	330	0.125	0.0	0.125	21.5	9.1	−1.0	9.1	353.3
963	G00B_100_100d	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
964	G00B_087_087d	0.0	0.875	0.0	0.875	0.875	0.437	150	0.0	0.875	0.0	47.6	−60.2	24.6	65.0	157.7
965	G00B_075_075d	0.0	0.75	0.0	0.75	0.75	0.375	150	0.0	0.75	0.0	43.3	−51.6	21.0	55.7	157.7
966	G00B_062_062d	0.0	0.625	0.0	0.625	0.625	0.312	150	0.0	0.625	0.0	39.1	−43.0	17.5	46.4	157.7
967	G00B_050_050d	0.0	0.5	0.0	0.5	0.5	0.25	150	0.0	0.5	0.0	34.8	−34.4	14.0	37.1	157.7
968	G00B_037_037d	0.0	0.375	0.0	0.375	0.375	0.187	150	0.0	0.375	0.0	30.5	−25.8	10.5	27.8	157.7
969	G00B_025_025d	0.0	0.25	0.0	0.25	0.25	0.125	150	0.0	0.25	0.0	26.2	−17.2	7.0	18.5	157.7
970	G00B_012_012d	0.0	0.125	0.0	0.125	0.125	0.062	150	0.0	0.125	0.0	21.9	−8.6	3.5	9.2	157.7
971	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0

n	rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
891	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
892	1.0	0.875	1.0	90.7	6.1	−1.9	6.4	342.7	3.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
893	1.0	0.75	1.0	84.8	13.8	−3.6	14.3	345.3	4.7	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
894	1.0	0.625	1.0	79.2	21.3	−4.9	21.9	346.8	6.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
895	1.0	0.5	1.0	71.3	32.5	−6.6	33.2	348.3	4.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
896	1.0	0.375	1.0	64.8	42.4	−7.4	43.0	350.0	3.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
897	1.0	0.25	1.0	58.5	52.9	−7.7	53.5	351.7	2.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
898	1.0	0.125	1.0	51.7	64.8	−7.5	65.3	353.3	2.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
899	1.0	0.0	1.0	46.6	74.0	−5.9	74.2	355.3	3.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
900	0.875	1.0	0.875	91.1	−5.7	5.3	7.8	136.8	3.5	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
901	0.875	0.875	0.875	89.4	0.0	−0.1	0.1	227.1	3.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
902	0.875	0.75	0.875	84.8	6.1	−2.0	6.4	341.8	5.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
903	0.875	0.625	0.875	78.1	14.6	−3.8	15.1	345.1	5.7	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
904	0.875	0.5	0.875	72.1	22.8	−5.3	23.4	346.8	6.4	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
905	0.875	0.375	0.875	64.3	33.9	−6.8	34.6	348.5	4.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
906	0.875	0.25	0.875	56.7	46.0	−7.7	46.7	350.4	2.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
907	0.875	0.125	0.875	49.8	57.9	−7.7	58.5	352.3	3.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
908	0.875	0.0	0.875	44.0	68.6	−6.7	69.0	354.3	5.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
909	0.75	1.0	0.75	86.4	−11.2	10.5	15.4	136.9	7.1	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
910	0.75	0.875	0.75	84.9	−6.1	5.4	8.1	138.5	5.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
911	0.75	0.75	0.75	81.3	−0.2	−0.2	0.3	228.2	5.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
912	0.75	0.625	0.75	75.8	6.5	−2.3	6.9	340.3	6.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
913	0.75	0.5	0.75	69.1	15.2	−4.2	15.8	344.5	6.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
914	0.75	0.375	0.75	61.9	25.3	−5.9	26.0	346.8	4.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
915	0.75	0.25	0.75	54.0	37.0	−7.1	37.7	349.1	3.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
916	0.75	0.125	0.75	46.8	48.8	−7.4	49.4	351.3	3.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
917	0.75	0.0	0.75	40.6	60.5	−7.1	60.9	353.2	5.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
918	0.625	1.0	0.625	80.8	−17.7	15.6	23.6	138.5	9.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
919	0.625	0.875	0.625	79.8	−12.1	10.8	16.2	138.3	7.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
920	0.625	0.75	0.625	76.5	−6.3	5.3	8.2	140.0	6.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
921	0.625	0.625	0.625	73.3	−0.3	−0.3	0.5	231.8	7.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
922	0.625	0.5	0.625	67.3	7.3	−2.6	7.7	339.9	7.3	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
923	0.625	0.375	0.625	60.9	15.9	−4.3	16.5	344.6	7.1	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
924	0.625	0.25	0.625	52.6	27.7	−6.2	28.4	347.3	5.0	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
925	0.625	0.125	0.625	44.7	39.9	−7.1	40.6	349.9	4.9	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
926	0.625	0.0	0.625	37.8	52.5	−7.1	53.0	352.2	7.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
927	0.5	1.0	0.5	74.4	−25.5	19.9	32.3	142.0	10.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
928	0.5	0.875	0.5	73.3	−19.7	14.9	24.7	142.8	8.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
929	0.5	0.75	0.5	70.8	−12.8	10.5	16.6	140.7	8.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
930	0.5	0.625	0.5	68.2	−6.8	5.0	8.4	143.3	7.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
931	0.5	0.5	0.5	65.5	−0.3	−0.4	0.5	232.6	8.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
932	0.5	0.375	0.5	58.1	8.5	−2.9	9.0	340.7	7.7	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
933	0.5	0.25	0.5	50.7	19.0	−5.0	19.7	345.2	6.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
934	0.5	0.125	0.5	41.7	31.7	−6.4	32.4	348.5	6.2	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
935	0.5	0.0	0.5	34.7	44.3	−6.7	44.8	351.3	8.4	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
936	0.375	1.0	0.375	68.4	−33.7	23.8	41.3	144.6	11.2	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
937	0.375	0.875	0.375	67.6	−27.6	19.9	34.0	144.2	9.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
938	0.375	0.75	0.375	64.8	−21.0	15.2	25.9	144.0	8.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
939	0.375	0.625	0.375	62.6	−14.1	10.6	17.7	143.0	8.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
940	0.375	0.5	0.375	59.9	−7.4	5.4	9.2	143.8	9.1	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
941	0.375	0.375	0.375	57.5	−0.3	−0.5	0.6	234.9	10.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
942	0.375	0.25	0.375	49.1	9.9	−3.2	10.5	341.7	8.4	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
943	0.375	0.125	0.375	40.5	21.7	−5.1	22.3	346.7	7.1	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
944	0.375	0.0	0.375	32.5	34.9	−5.8	35.4	350.4	8.7	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
945	0.25	1.0	0.25	62.1	−43.3	25.9	50.5	149.0	9.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
946	0.25	0.875	0.25	60.8	−37.2	24.0	44.3	147.1	8.9	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
947	0.25	0.75	0.25	58.5	−29.7	20.1	35.9	145.8	8.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
948	0.25	0.625	0.25	56.0	−23.1	15.7	28.0	145.8	8.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
949	0.25	0.5	0.25	53.2	−16.2	10.9	19.5	146.1	8.5	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
950	0.25	0.375	0.25	50.9	−8.5	5.8	10.3	145.8	9.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
951	0.25	0.25	0.25	47.1	−0.3	−0.4	0.6	233.7	9.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
952	0.25	0.125	0.25	37.7	12.0	−3.3	12.4	344.4	7.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
953	0.25	0.0	0.25	29.7	23.9	−4.6	24.4	349.0	7.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
954	0.125	1.0	0.125	56.0	−54.1	26.7	60.4	153.7	6.5	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
955	0.125	0.875	0.125	54.5	−48.1	24.7	54.1	152.8	5.2	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
956	0.125	0.75	0.125	51.7	−40.9	21.9	46.4	151.8	5.6	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
957	0.125	0.625	0.125	48.7	−33.7	18.9	38.6	150.6	6.5	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
958	0.125	0.5	0.125	46.0	−26.1	15.7	30.5	148.8	7.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
959	0.125	0.375	0.125	43.1	−18.7	11.3	21.8	148.8	8.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
960	0.125	0.25	0.125	39.1	−10.7	6.0	12.3	150.7	8.1	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
961	0.125	0.125	0.125	32.3	−0.2	−0.1	0.2	220.7	4.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
962	0.125	0.0	0.125	24.9	11.1	−2.2	11.3	348.7	4.1	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3
963	0.0	1.0	0.0	49.3	−69.7	24.5	73.9	160.5	4.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
964	0.0	0.875	0.0	47.8	−63.4	23.3	67.5	159.7	3.3	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
965	0.0	0.75	0.0	45.3	−54.3	22.0	58.6	157.9	3.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
966	0.0	0.625	0.0	42.7	−46.0	19.4	50.0	157.0	5.1	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
967	0.0	0.5	0.0	39.4	−37.8	17.6	41.7	154.9	6.8	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
968	0.0	0.375	0.0	36.5	−29.3	14.0	32.4	154.4	7.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
969	0.0	0.25	0.0	33.1	−19.7	10.4	22.3	152.0	8.0	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
970	0.0	0.125	0.0	26.3	−9.4	4.0	10.3	156.8	4.4	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
971	0.0	0.0	0.0	20.4	0.1	0.5	0.5	78.3	2.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: delta $E^{*\prime}$ = 6.4

1−0033030−F0 QE040−7N, Page 31/33−F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> rgb_d
output: transfer to $cmyk_d$

QE0400L

n	HIC*Fd	rgb_Fd			ict_Fd			hsi_F,d	rgb*Fd			LabCh*Fd					rgb*'Fd			LabCh*'Fd					DE*'Fd	hsiM,d	rgb*Md			LabCh*Md				
972	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.4	0.4	84.7	1.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
973	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	30.5	-0.2	-0.2	0.3	226.1	3.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
974	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	45.4	-0.4	-0.6	0.7	236.5	8.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
975	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	56.2	-0.4	-0.3	0.5	217.4	9.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
976	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	65.1	-0.4	-0.4	0.5	224.9	8.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
977	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.8	-0.3	-0.2	0.4	220.0	7.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
978	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	81.8	-0.2	-0.2	0.3	225.6	5.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
979	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.8	-0.1	0.0	0.1	215.9	4.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
980	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.4	0.0	0.0	0.0	138.2	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
981	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.2	0.2	72.2	1.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
982	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	30.2	-0.2	-0.3	0.4	235.2	2.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
983	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	45.3	-0.4	-0.6	0.7	235.9	8.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
984	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	56.3	-0.4	-0.5	0.7	229.4	9.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
985	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	64.8	-0.4	-0.1	0.5	191.4	8.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
986	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.6	-0.3	-0.2	0.4	210.7	7.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
987	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	81.6	-0.2	-0.2	0.3	229.6	5.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
988	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.9	-0.1	0.0	0.1	197.4	4.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
989	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.5	0.0	0.0	0.0	102.7	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
990	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0	0.1	0.1	83.1	0.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
991	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	29.8	-0.2	-0.3	0.4	232.8	2.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
992	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	45.1	-0.4	-0.6	0.8	237.3	8.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
993	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	56.1	-0.4	-0.5	0.7	228.2	9.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
994	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	64.7	-0.4	-0.3	0.5	220.2	8.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
995	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.4	-0.3	-0.3	0.5	224.3	7.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
996	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	81.2	-0.2	-0.1	0.3	213.1	5.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
997	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.4	-0.1	0.0	0.1	202.8	3.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
998	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.3	0.0	0.1	0.1	111.5	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
999	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	0.0	0.0	0.0	96.0	0.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1000	NW_012d	0.125	0.125	0.125	0.125	0.0	0.125	360	0.125	0.125	0.125	27.4	0.0	0.0	0.0	0.0	0.125	0.125	0.125	29.4	-0.2	-0.3	0.4	233.4	2.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1001	NW_025d	0.25	0.25	0.25	0.25	0.0	0.25	360	0.25	0.25	0.25	37.1	0.0	0.0	0.0	0.0	0.25	0.25	0.25	44.3	-0.4	-0.7	0.8	239.8	7.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1002	NW_037d	0.375	0.375	0.375	0.375	0.0	0.375	360	0.375	0.375	0.375	46.8	0.0	0.0	0.0	0.0	0.375	0.375	0.375	55.8	-0.4	-0.6	0.8	235.0	8.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1003	NW_050d	0.5	0.5	0.5	0.5	0.0	0.5	360	0.5	0.5	0.5	56.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	64.6	-0.4	-0.5	0.6	230.8	8.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1004	NW_062d	0.625	0.625	0.625	0.625	0.0	0.625	360	0.625	0.625	0.625	66.3	0.0	0.0	0.0	0.0	0.625	0.625	0.625	73.2	-0.3	-0.4	0.5	229.6	6.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1005	NW_075d	0.75	0.75	0.75	0.75	0.0	0.75	360	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.75	0.75	0.75	81.2	-0.2	-0.2	0.3	222.5	5.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1006	NW_087d	0.875	0.875	0.875	0.875	0.0	0.875	360	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.875	0.875	0.875	89.7	-0.1	0.0	0.1	179.7	3.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1007	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.4	0.0	0.1	0.1	108.6	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1008	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	0.0	0.4	0.4	83.1	2.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1009	NW_006d	0.066	0.066	0.066	0.066	0.0	0.066	360	0.066	0.066	0.066	22.8	0.0	0.0	0.0	0.0	0.066	0.066	0.066	23.5	0.0	0.3	0.3	97.7	0.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1010	NW_013d	0.133	0.133	0.133	0.133	0.0	0.133	360	0.133	0.133	0.133	28.0	0.0	0.0	0.0	0.0	0.133	0.133	0.133	31.8	-0.2	-0.3	0.4	233.6	3.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1011	NW_020d	0.2	0.2	0.2	0.2	0.0	0.2	360	0.2	0.2	0.2	33.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	40.7	-0.3	-0.5	0.6	236.6	7.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1012	NW_026d	0.266	0.266	0.266	0.266	0.0	0.266	360	0.266	0.266	0.266	38.3	0.0	0.0	0.0	0.0	0.266	0.266	0.266	46.8	-0.4	-0.5	0.7	234.6	8.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1013	NW_033d	0.333	0.333	0.333	0.333	0.0	0.333	360	0.333	0.333	0.333	43.6	0.0	0.0	0.0	0.0	0.333	0.333	0.333	53.5	-0.4	-0.5	0.6	231.7	9.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1014	NW_040d	0.4	0.4	0.4	0.4	0.0	0.4	360	0.4	0.4	0.4	48.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4	58.5	-0.4	-0.5	0.6	232.4	9.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1015	NW_046d	0.466	0.466	0.466	0.466	0.0	0.466	360	0.466	0.466	0.466	53.9	0.0	0.0	0.0	0.0	0.466	0.466	0.466	62.7	-0.4	-0.5	0.6	232.1	8.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1016	NW_053d	0.533	0.533	0.533	0.533	0.0	0.533	360	0.533	0.533	0.533	59.1	0.0	0.0	0.0	0.0	0.533	0.533	0.533	67.6	-0.3	-0.4	0.6	231.8	8.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1017	NW_060d	0.6	0.6	0.6	0.6	0.0	0.6	360	0.6	0.6	0.6	64.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6	72.7	-0.3	-0.4	0.5	231.4	8.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1018	NW_066d	0.666	0.666	0.666	0.666	0.0	0.666	360	0.666	0.666	0.666	69.5	0.0	0.0	0.0	0.0	0.666	0.666	0.666	76.8	-0.2	-0.3	0.4	231.9	7.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1019	NW_073d	0.734	0.734	0.734	0.734	0.0	0.734	360	0.734	0.734	0.734	74.7	0.0	0.0	0.0	0.0	0.734	0.734	0.734	80.9	-0.2	-0.2	0.3	225.3	6.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1020	NW_080d	0.8	0.8	0.8	0.8	0.0	0.8	360	0.8	0.8	0.8	79.9	0.0	0.0	0.0	0.0	0.8	0.8	0.8	84.8	-0.1	-0.1	0.2	226.2	4.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1021	NW_086d	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	85.0	0.0	0.0	0.0	0.0	0.866	0.866	0.866	89.6	-0.1	0.0	0.1	212.1	4.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1022	NW_093d	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	90.2	0.0	0.0	0.0	0.0	0.933	0.933	0.933	92.3	0.0	0.0	0.0	232.8	2.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1023	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.5	0.0	0.0	0.0	325.6	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1024	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.4	0.4	87.5	1.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1025	NW_006d	0.066	0.066	0.066	0.066	0.0	0.066	360	0.066	0.066	0.066	22.8	0.0	0.0	0.0	0.0	0.066	0.066	0.066	23.2	0.0	0.1	0.1	114.3	0.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1026	NW_013d	0.133	0.133	0.133	0.133	0.0	0.133	360	0.133	0.133	0.133	28.0	0.0	0.0	0.0	0.0	0.133	0.133	0.133	31.5	-0.2	-0.3	0.4	234.5	3.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1027	NW_020d	0.2	0.2	0.2	0.2	0.0	0.2	360	0.2	0.2	0.2	33.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	40.2	-0.3	-0.6	0.7	237.8	7.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1028	NW_026d	0.266	0.266	0.266	0.266	0.0	0.266	360	0.266	0.266	0.266	38.3	0.0	0.0	0.0	0.0	0.266	0.266	0.266	46.7	-0.4	-0.5	0.7	234.5	8.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1029	NW_033d	0.333	0.333	0.333	0.333	0.0	0.333	360	0.333	0.333	0.333	43.6	0.0	0.0	0.0	0.0	0.333	0.333	0.333	52.9	-0.4	-0.6	0.7	235.6	9.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1030	NW_040d	0.4	0.4	0.4	0.4	0.0	0.4	360	0.4	0.4	0.4	48.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4	58.0	-0.4	-0.6	0.7	236.6	9.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1031	NW_046d	0.466	0.466	0.466	0.466	0.0	0.466	360	0.466	0.466	0.466	53.9	0.0	0.0	0.0	0.0	0.466	0.466	0.466	62.5	-0.4	-0.5	0.6	233.8	8.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1032	NW_053d	0.533	0.533	0.533	0.533	0.0	0.533	360	0.533	0.533	0.533	59.1	0.0	0.0	0.0	0.0	0.533	0.533	0.533	67.6	-0.3	-0.4	0.6	229.9	8.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1033	NW_060d	0.6	0.6	0.6	0.6	0.0	0.6	360	0.6	0.6	0.6	64.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6	72.6	-0.3	-0.3	0.5	226.7	8.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1034	NW_066d	0.666	0.666	0.666	0.666	0.0	0.666	360	0.666	0.666	0.666	69.5	0.0	0.0	0.0	0.0	0.666	0.666	0.666	76.4	-0.3	-0.3	0.4	228.5	6.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1035	NW_073d	0.734	0.734	0.734	0.734	0.0	0.734	360	0.734	0.734	0.734	74.7	0.0	0.0	0.0	0.0	0.734	0.734	0.734	81.0	-0.2	-0.3	0.3	231.4	6.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1036	NW_080d	0.8	0.8	0.8	0.8	0.0	0.8	360	0.8	0.8	0.8	79.9	0.0	0.0	0.0	0.0	0.8	0.8	0.8	84.8	-0.1	-0.2	0.2	227.1	4.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1037	NW_086d	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	85.0	0.0	0.0	0.0	0.0	0.866	0.866	0.866	89.7	-0.1	0.0	0.1	214.9	4.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1038	NW_093d	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	90.2	0.0	0.0	0.0	0.0	0.933	0.933	0.933	92.3	0.0	0.0	0.0	192.4	2.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1039	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.6	0.0	0.0	0.0	75.7	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1040	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0	0.3	0.3	82.9	1.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1041	NW_006d	0.066	0.066	0.066	0.066	0.0	0.066	360	0.066	0.066	0.066	22.8	0.0	0.0	0.0	0.0	0.066	0.066	0.066	22.9	-0.1	0.1	0.1	123.7	0.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1042	NW_013d	0.133	0.133	0.133	0.133	0.0	0.133	360	0.133	0.133	0.133	28.0	0.0	0.0	0.0	0.0	0.133	0.133	0.133	30.8	-0.3	-0.3	0.4	230.8	2.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1043	NW_020d	0.2	0.2	0.2	0.2	0.0	0.2	360	0.2	0.2	0.2	33.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	39.5	-0.4	-0.6	0.7	238.3	6.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1044	NW_026d	0.266	0.266	0.266	0.266	0.0	0.266	360	0.266	0.266	0.266	38.3	0.0	0.0	0.0	0.0	0.266	0.266	0.266	45.8	-0.4	-0.6	0.7	234.2	7.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1045	NW_033d	0.333	0.333	0.333	0.333	0.0	0.333	360	0.333	0.333	0.333	43.6	0.0	0.0	0.0	0.0	0.333	0.333	0.333	52.9	-0.4	-0.6	0.7	233.9	9.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1046	NW_040d	0.4	0.4	0.4	0.4	0.0	0.4	360	0.4	0.4	0.4	48.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4	57.9	-0.4	-0.6	0.7	234.3	9.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1047	NW_046d	0.466	0.466	0.466	0.466	0.0	0.466	360	0.466	0.466	0.466	53.9	0.0	0.0	0.0	0.0	0.466	0.466	0.466	62.0	-0.4	-0.5	0.7	231.6	8.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1048	NW_053d	0.533	0.533	0.533	0.533	0.0	0.533	360	0.533	0.533	0.533	59.1	0.0	0.0	0.0	0.0	0.533	0.533	0.533	67.5	-0.3	-0.5	0.6	233.4	8.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1049	NW_060d	0.6	0.6	0.6	0.6	0.0	0.6	360	0.6	0.6	0.6	64.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6	72.0	-0.3	-0.4	0.5	231.2	7.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1050	NW_066d	0.666	0.666	0.666	0.666	0.0	0.666	360	0.666	0.666	0.666	69.5	0.0	0.0	0.0	0.0	0.666	0.666	0.666	76.6	-0.3	-0.3	0.5	230.4	7.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1051	NW_073d	0.734	0.734	0.734	0.734	0.0	0.734	360	0.734	0.734	0.734	74.7	0.0	0.0	0.0	0.0	0.734	0.734	0.734	80.9	-0.2	-0.3	0.4	229.7	6.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1052	NW_080d	0.8	0.8	0.8	0.8	0.0	0.8	360	0.8	0.8	0.8	79.9	0.0	0.0	0.0	0.0	0.8	0.8	0.8	84.7	-0.2	-0.1	0.2	213.0	4.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0

Mean color difference of this page: delta $E^{*\prime}$ = 5.5

1-0033130-F0

QE040-7N, Page 32/33-F

TUB-test chart QE04; hue code: H^*_d=R25Y_d
colors and differences, $\Delta E^{*\prime}$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmyk_d$

TUB registration: 20130201-QE04/QE04L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6 (CMYK)

http://130.149.60.45/~farbmetrik/QE04/QE04L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HIC*$_{\mathrm{Fd}}$	$rgb_{\_\mathrm{Fd}}$			$ict_{\_\mathrm{Fd}}$			$h_{\mathrm{si\_F,d}}$	rgb^*_{Fd}			$LabCh^*_{\mathrm{Fd}}$					$rgb^{*\prime}_{\mathrm{Fd}}$			$LabCh^{*\prime}_{\mathrm{Fd}}$					$DE^{*\prime}_{\mathrm{Fd}}$	$h_{\mathrm{siM,d}}$	rgb^*_{Md}			$LabCh^*_{\mathrm{Md}}$				
1053	NW_086$_{d}$	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	85.0	0.0	0.0	0.0	0.0	0.866	0.866	0.866	89.4	−0.1	0.0	0.1	204.5	4.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1054	NW_093$_{d}$	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	90.2	0.0	0.0	0.0	0.0	0.933	0.933	0.933	92.2	0.0	0.0	0.0	177.8	1.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1055	NW_100$_{d}$	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.4	0.0	0.0	0.0	61.5	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1056	NW_000$_{d}$	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.1	0.1	96.3	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1057	NW_006$_{d}$	0.066	0.066	0.066	0.066	0.0	0.066	360	0.066	0.066	0.066	22.8	0.0	0.0	0.0	0.0	0.066	0.066	0.066	22.3	−0.1	0.0	0.1	151.6	0.5	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1058	NW_013$_{d}$	0.133	0.133	0.133	0.133	0.0	0.133	360	0.133	0.133	0.133	28.0	0.0	0.0	0.0	0.0	0.133	0.133	0.133	30.4	−0.2	−0.5	0.6	242.3	2.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1059	NW_020$_{d}$	0.2	0.2	0.2	0.2	0.0	0.2	360	0.2	0.2	0.2	33.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	38.9	−0.4	−0.8	0.9	243.3	5.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1060	NW_026$_{d}$	0.266	0.266	0.266	0.266	0.0	0.266	360	0.266	0.266	0.266	38.3	0.0	0.0	0.0	0.0	0.266	0.266	0.266	45.6	−0.4	−0.7	0.8	240.2	7.2	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1061	NW_033$_{d}$	0.333	0.333	0.333	0.333	0.0	0.333	360	0.333	0.333	0.333	43.6	0.0	0.0	0.0	0.0	0.333	0.333	0.333	51.9	−0.4	−0.6	0.8	235.4	8.4	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1062	NW_040$_{d}$	0.4	0.4	0.4	0.4	0.0	0.4	360	0.4	0.4	0.4	48.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4	57.3	−0.4	−0.6	0.7	234.3	8.6	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1063	NW_046$_{d}$	0.466	0.466	0.466	0.466	0.0	0.466	360	0.466	0.466	0.466	53.9	0.0	0.0	0.0	0.0	0.466	0.466	0.466	61.7	−0.4	−0.6	0.7	235.2	7.8	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1064	NW_053$_{d}$	0.533	0.533	0.533	0.533	0.0	0.533	360	0.533	0.533	0.533	59.1	0.0	0.0	0.0	0.0	0.533	0.533	0.533	67.0	−0.3	−0.5	0.6	234.5	7.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1065	NW_060$_{d}$	0.6	0.6	0.6	0.6	0.0	0.6	360	0.6	0.6	0.6	64.3	0.0	0.0	0.0	0.0	0.6	0.6	0.6	72.1	−0.3	−0.4	0.5	231.6	7.7	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1066	NW_066$_{d}$	0.666	0.666	0.666	0.666	0.0	0.666	360	0.666	0.666	0.666	69.5	0.0	0.0	0.0	0.0	0.666	0.666	0.666	76.7	−0.3	−0.4	0.5	233.5	7.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1067	NW_073$_{d}$	0.734	0.734	0.734	0.734	0.0	0.734	360	0.734	0.734	0.734	74.7	0.0	0.0	0.0	0.0	0.734	0.734	0.734	80.9	−0.2	−0.2	0.3	225.3	6.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1068	NW_080$_{d}$	0.8	0.8	0.8	0.8	0.0	0.8	360	0.8	0.8	0.8	79.9	0.0	0.0	0.0	0.0	0.8	0.8	0.8	84.8	−0.2	−0.1	0.2	221.2	4.9	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1069	NW_086$_{d}$	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	85.0	0.0	0.0	0.0	0.0	0.866	0.866	0.866	89.3	−0.1	−0.1	0.1	220.3	4.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1070	NW_093$_{d}$	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	90.2	0.0	0.0	0.0	0.0	0.933	0.933	0.933	92.2	0.0	0.0	0.0	125.8	2.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1071	NW_100$_{d}$	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.5	0.0	0.0	0.0	92.4	0.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1072	NW_000$_{d}$	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.1	0.5	0.5	78.4	2.3	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1073	NW_100$_{d}$	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0	1.0	1.0	1.0	95.6	0.0	−0.1	0.1	275.2	0.1	360	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1074	R00Y_100_100$_{d}$	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.0	44.8	66.8	40.9	78.4	31.4	3.9	389	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
1075	G50B_100_100$_{d}$	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1	0.0	1.0	1.0	56.0	−28.4	−45.4	53.6	237.9	2.9	210	0.0	1.0	1.0	58.3	−29.2	−43.7	52.6	236.1
1076	Y00G_100_100$_{d}$	1.0	1.0	0.0	1.0	1.0	0.5	90	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1	1.0	1.0	0.0	87.5	−11.0	95.6	96.2	96.5	1.3	89	1.0	1.0	0.0	88.3	−11.9	95.1	95.8	97.1
1077	B00R_100_100$_{d}$	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4	0.0	0.0	1.0	22.8	25.5	−46.0	52.6	299.0	3.4	270	0.0	0.0	1.0	25.3	23.5	−47.3	52.8	296.4
1078	G00B_100_100$_{d}$	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7	0.0	1.0	0.0	48.4	−70.3	25.1	74.6	160.2	4.7	149	0.0	1.0	0.0	51.9	−68.8	28.1	74.3	157.7
1079	B50R_100_100$_{d}$	1.0	0.0	1.0	1.0	1.0	0.5	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3	1.0	0.0	1.0	45.0	75.3	−3.2	75.4	357.5	6.6	330	1.0	0.0	1.0	48.2	72.8	−8.5	73.3	353.3

Mean color difference of this page: **delta $E^{*\prime}$ =** ***4.2***

TUB-test chart QE04; hue code: H*$_{d}$=R25Y$_{d}$
colors and differences, $\Delta E^{*\prime}$

input: *rgb/cmyk* −> *rgb*$_{d}$
output: transfer to *cmyk*$_{d}$