

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 96/360 = 0.26$

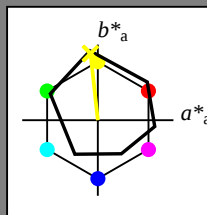
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours
of this page:

$H^*_- = Y00G_-$

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
Y-,Ma	90.3	-10.2	91.7	92.3
G-,Ma	50.9	-62.8	34.9	71.9
C-,Ma	58.6	-30.3	-45.0	54.2
B-,Ma	25.7	31.0	-44.4	54.2
M-,Ma	48.1	75.2	-8.3	75.7
N-,Ma	18.0	0.0	0.0	0.0
W-,Ma	95.4	0.0	0.0	0.0
R-,CIE	39.9	58.7	27.9	65.0
Y-,CIE	81.2	-2.8	71.5	71.6
G-,CIE	52.2	-42.4	13.6	44.5
B-,CIE	30.5	1.4	-46.4	46.4

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 90 -9 88 88 96

$HIC^*_{-,Ma}$: Y00G_100_100

$rgbic^*_{-,Ma}$:

1.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

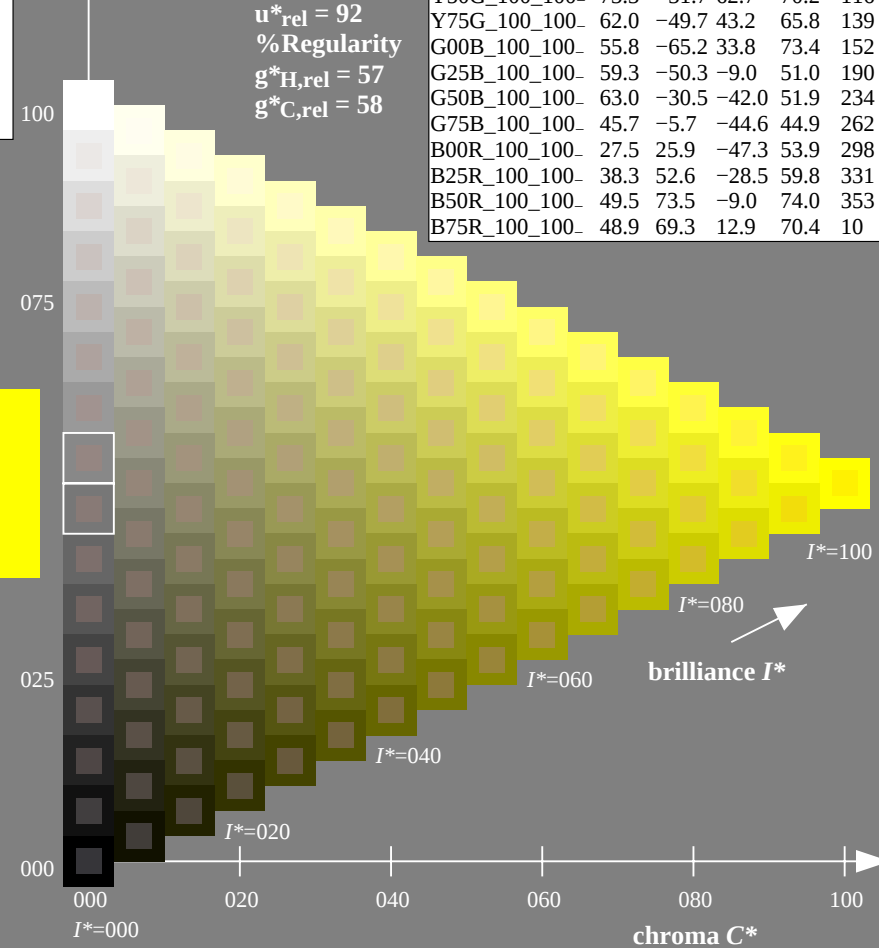
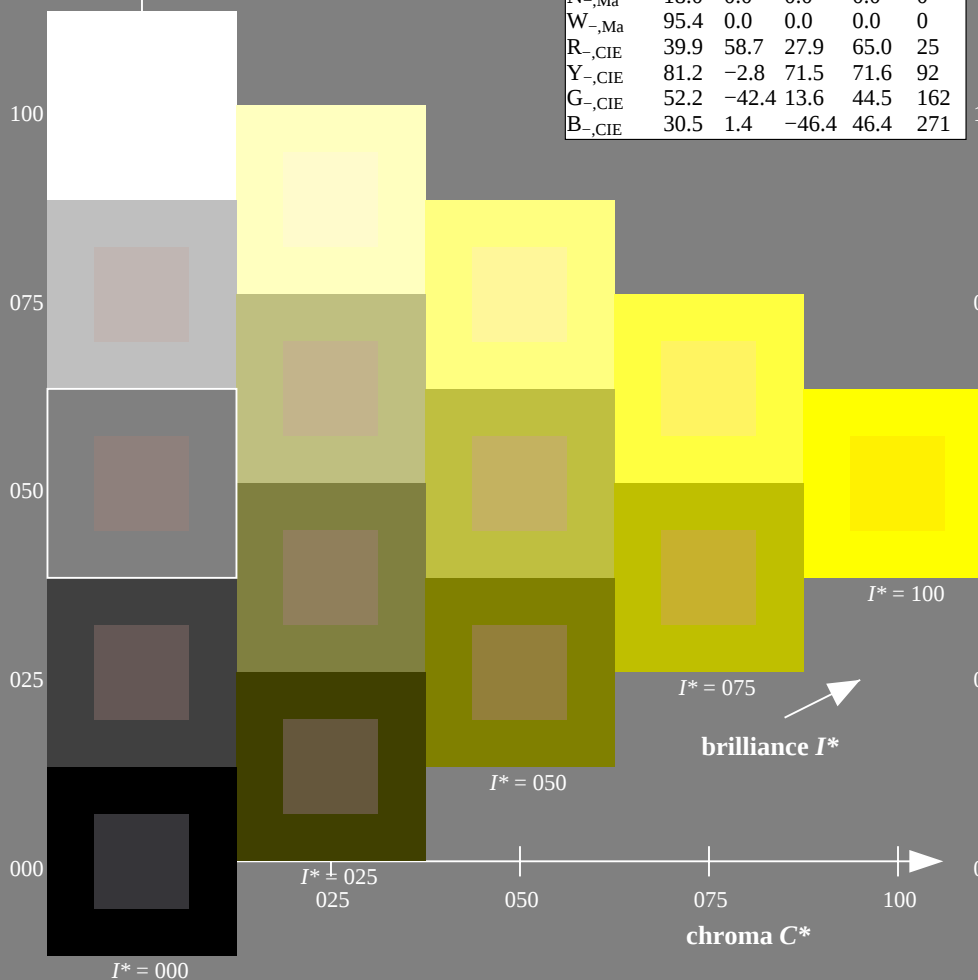
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

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
R25Y_100_100	56.8	48.0	50.5	69.6
R50Y_100_100	68.6	25.0	63.9	68.6
R75Y_100_100	80.6	4.8	77.2	77.3
Y00G_100_100	90.2	-9.6	88.2	88.7
Y25G_100_100	83.2	-18.4	79.9	81.9
Y50G_100_100	73.3	-31.7	62.7	70.2
Y75G_100_100	62.0	-49.7	43.2	65.8
G00B_100_100	55.8	-65.2	33.8	73.4
G25B_100_100	59.3	-50.3	-9.0	51.0
G50B_100_100	63.0	-30.5	-42.0	51.9
G75B_100_100	45.7	-5.7	-44.6	44.9
B00R_100_100	27.5	25.9	-47.3	53.9
B25R_100_100	38.3	52.6	-28.5	59.8
B50R_100_100	49.5	73.5	-9.0	74.0
B75R_100_100	48.9	69.3	12.9	70.4



TUB-test chart QE34; hue code: $H^*_- = Y00G_-$
Test chart according to DIN 33872, 3D=1, de=0, cmk^*

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 97/360 = 0.26$

$H^*_d = Y00G_d$

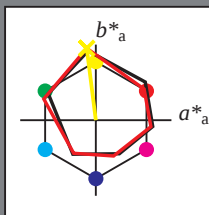
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = Y00G_d$

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):

$LabCh^*_d, Ma$: 88 -11 95 95 97

HIC^*_d, Ma : Y00G_100_100d

$rgbic^*_d, Ma$:

1.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

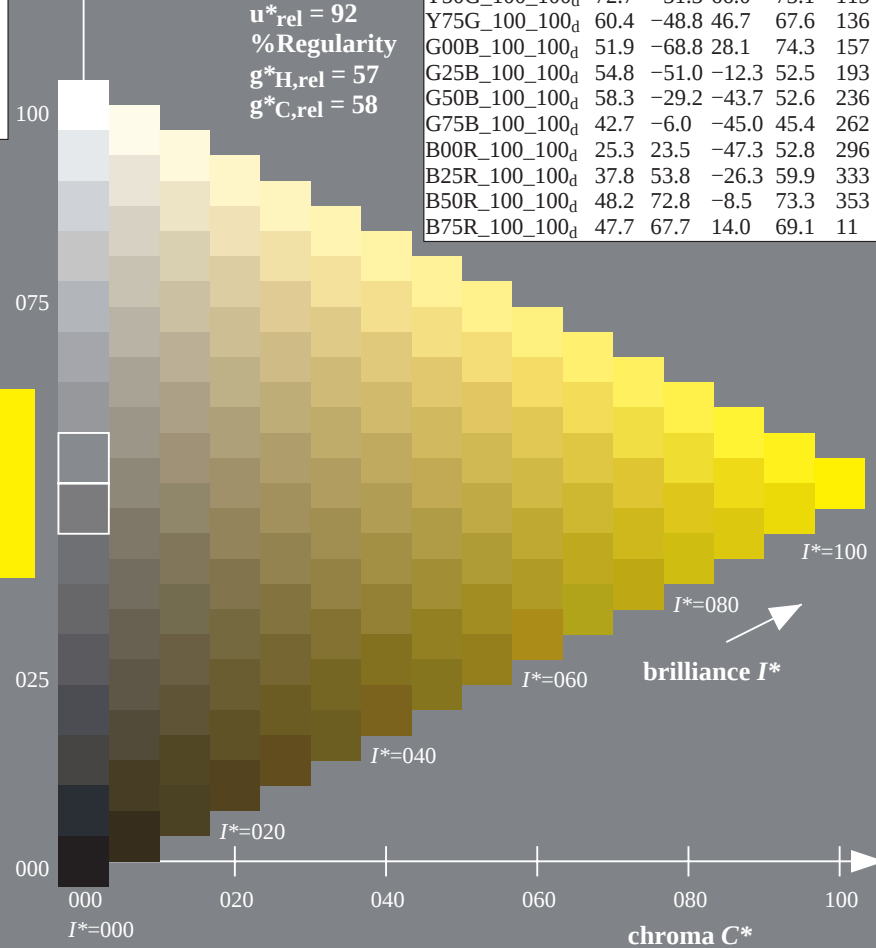
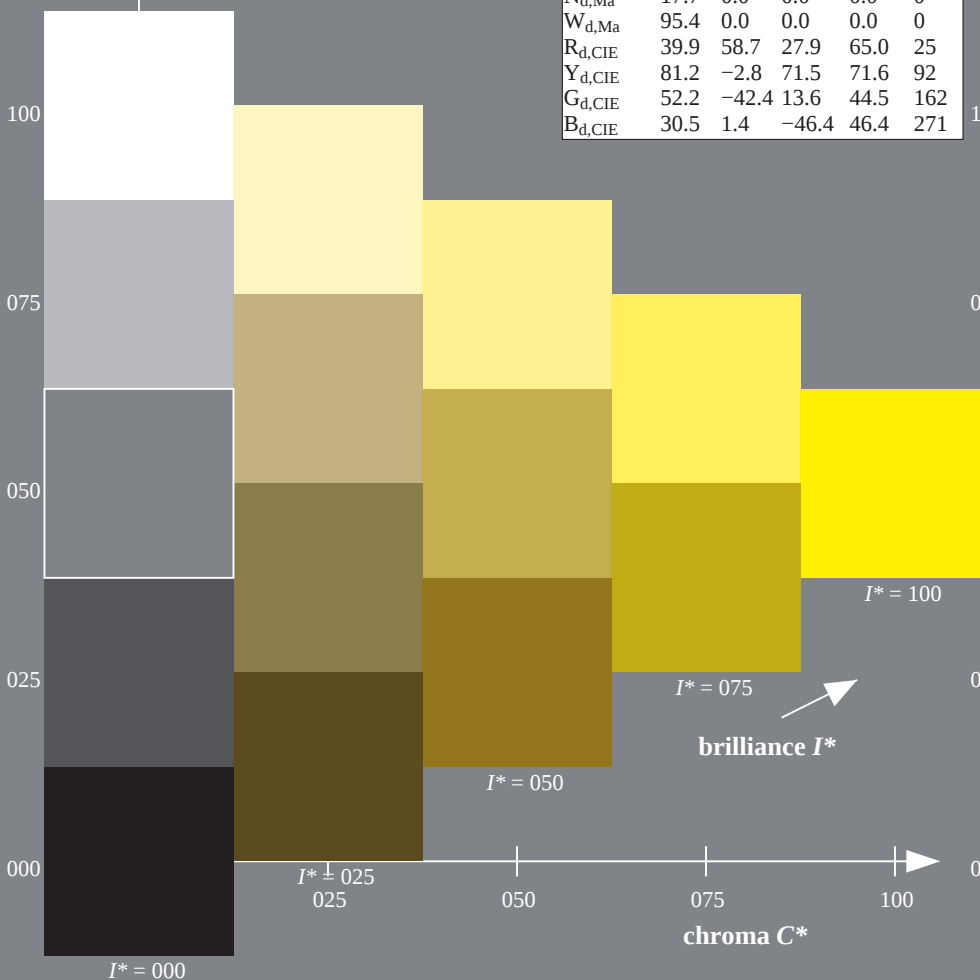
$u^*_{rel} = 92$

% 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_100d	47.3	63.8	41.2	76.0	32
R25Y_100_100d	55.3	45.8	52.2	69.5	48
R50Y_100_100d	67.2	22.6	67.6	71.2	71
R75Y_100_100d	79.9	1.0	83.9	83.9	89
Y00G_100_100d	88.3	-11.9	95.1	95.8	97
Y25G_100_100d	83.3	-19.2	83.7	85.9	102
Y50G_100_100d	72.7	-31.3	66.0	73.1	115
Y75G_100_100d	60.4	-48.8	46.7	67.6	136
G00B_100_100d	51.9	-68.8	28.1	74.3	157
G25B_100_100d	54.8	-51.0	-12.3	52.5	193
G50B_100_100d	58.3	-29.2	-43.7	52.6	236
G75B_100_100d	42.7	-6.0	-45.0	45.4	262
B00R_100_100d	25.3	23.5	-47.3	52.8	296
B25R_100_100d	37.8	53.8	-26.3	59.9	333
B50R_100_100d	48.2	72.8	-8.5	73.3	353
B75R_100_100d	47.7	67.7	14.0	69.1	11

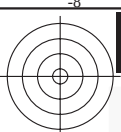


TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
Test chart according to DIN 33872, 3D=1, de=0, $cm\dot{y}k^*$

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cm\dot{y}k^*_{dd}$

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation $cm\dot{y}n6^*$ (CMYK)

TUB material: code=rha4ta



see similar files: <http://130.149.60.45/~farbmetrik/QE34/QE34.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE34/QE34L0FA.TXT /.PS TUB material: code=rha4ta
 application for measurement of offset print output, separation cmyk6* (CMYK)

Input and Output: Offset Reflective System ORS18a for relative CIE LAB hue $h_{ab,rel} = h_{ab}/360 = 97/360 = 0,26$

$H^*_d = Y00G_d$

Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = Y00G_d$

triangle lightness T^*

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$: 88 -11 95 95 97

$HIC^*_{d,Ma}$: Y00G_100_100_d

$rgbic^*_{d,Ma}$:

1.0 1.0 0.0 1.0 1.0

triangle lightness T^*

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

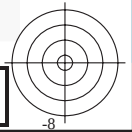
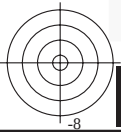


1-103230-L0 QE340-72

TUB-test chart QE34; hue code: $H^*_d = Y00G_d$
 Test chart according to DIN 33872, 3D=1, de=0, cmyk*

input: $rgb/cmyk \rightarrow rgb_{dd}$
 output: 3D-linearization to $cmyk^*_{dd}$

1-103230-E0



TUB registration: 20130201-QE34/QE34L0FA.TXT /.PS
application for measurement of offset print output, separation cmyk* (CMYK)

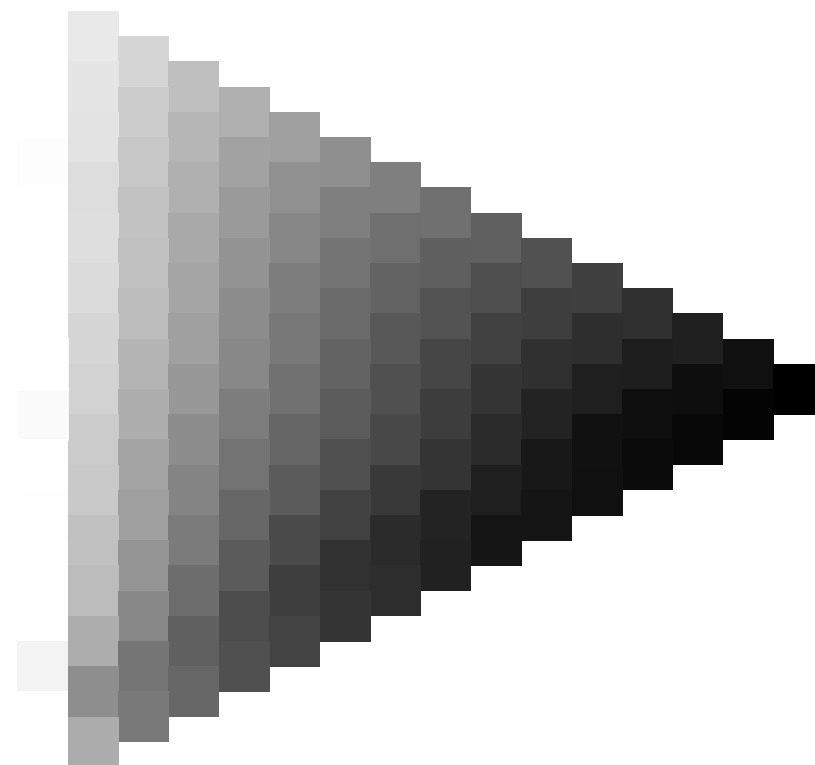
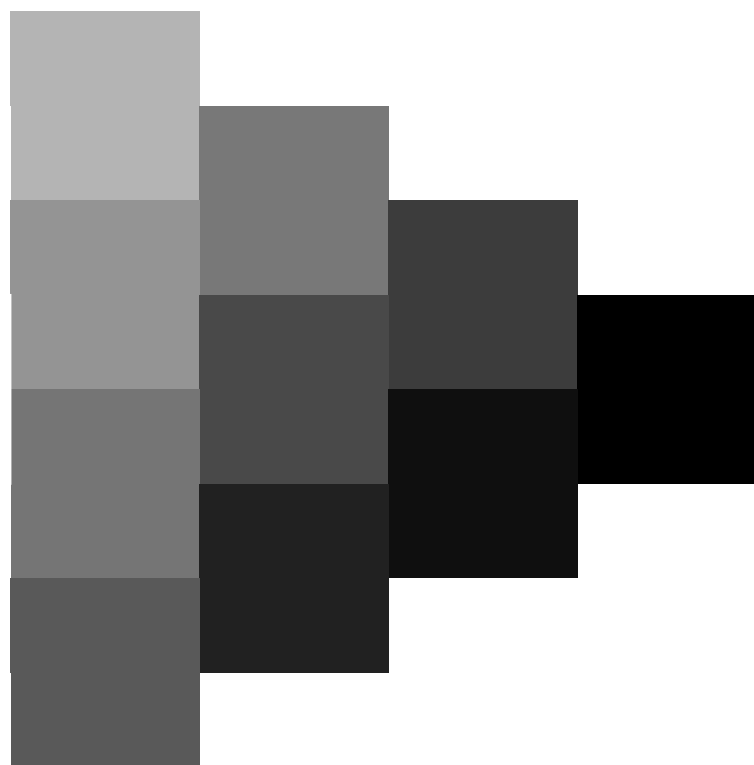
TUB material: code=rh4ta

1-103330-L0 QE340-72
TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
Test chart according to DIN 33872, 3D=1, de=0, cmyk*

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

see similar files: <http://130.149.60.45/~farbmetrik/QE34/QE34.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

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1-103430-L0 QE340-72

TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
Test chart according to DIN 33872, 3D=1, de=0, cmyk*

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

1-103430-E0

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 97/360 = 0.26$

$H^*_d = Y00G_d$

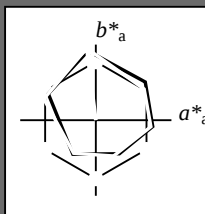
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = Y00G_d$

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):

$LabCh^*_{d,Ma}$: 88 -11 95 95 97

$HIC^*_{d,Ma}$: Y00G_100_100d

$rgbic^*_{d,Ma}$:

1.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

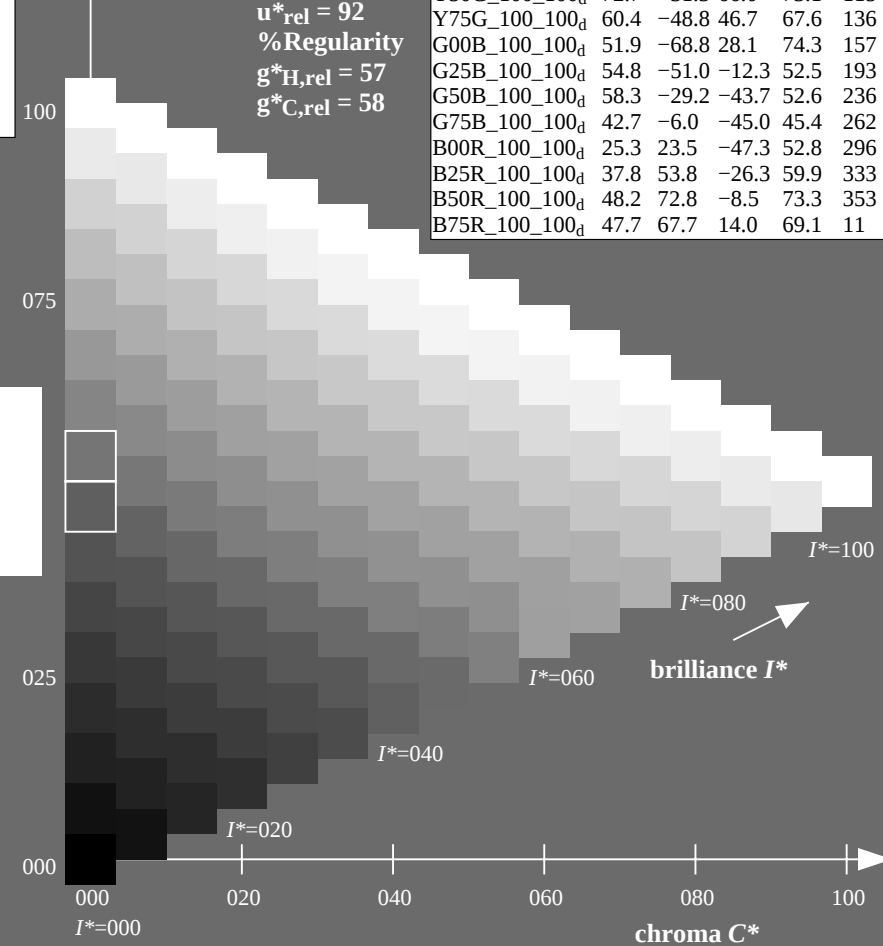
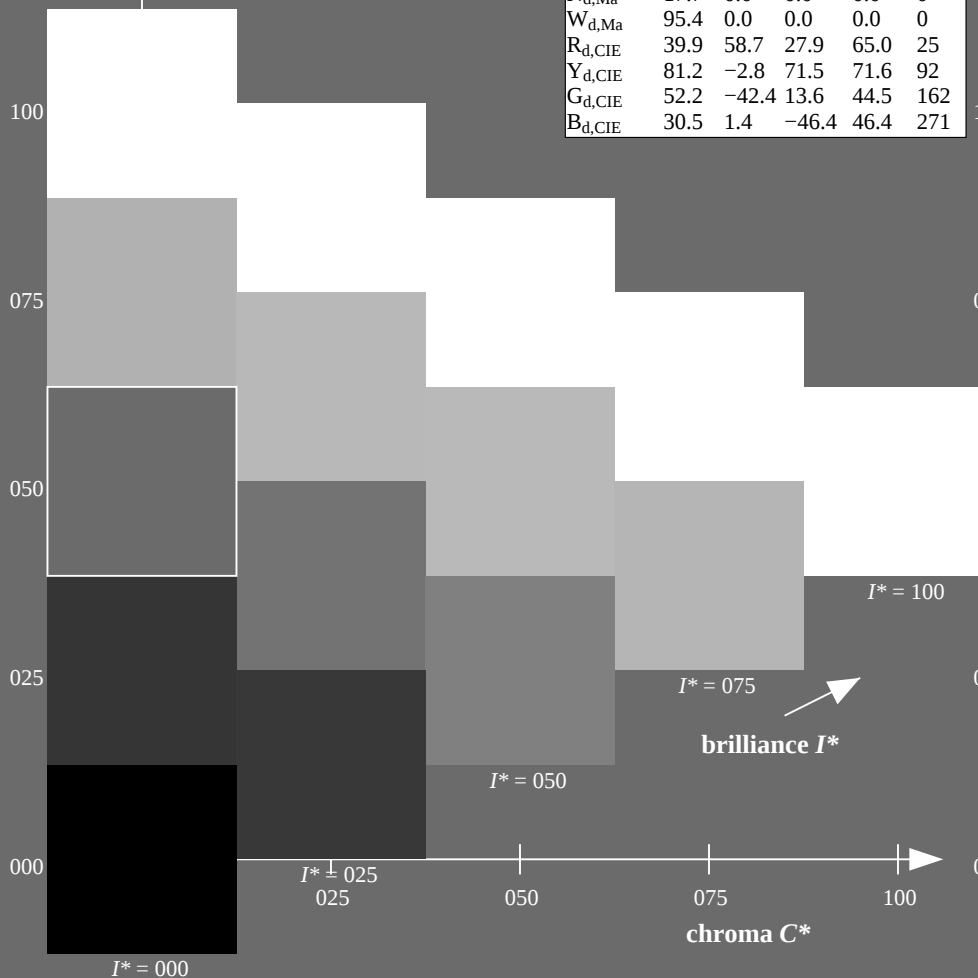
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

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



TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
Test chart according to DIN 33872, 3D=1, de=0, $cm\dot{y}k^*$

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cm\dot{y}k^*_{dd}$

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation $cm\dot{y}n6^*$ (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy6*, 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 $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$ Yellow

$LCH^*_d = 88.3 \ 95.8 \ 97.1$
 $LAB^*_d = 88.3 \ -11.9 \ 95.1$
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$ 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

$LCH^*_d = 58.3 \ 52.6 \ 236.1$
 $LAB^*_d = 58.3 \ -29.2 \ -43.7$
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$ orange-red

$LCH^*_d = 47.3 \ 76.0 \ 32.8$
 $LAB^*_d = 47.3 \ 63.8 \ 41.2$
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$ 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

$LCH^*_d = 25.3 \ 52.8 \ 296.4$
 $LAB^*_d = 25.3 \ 23.5 \ -47.3$
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e yellow

$LCH^*_e = 82.9 \ 87.9 \ 92.3$
 $LAB^*_e = 82.9 \ -3.5 \ 87.8$
 $rgb^*_{de} = 1.0 \ 0.841 \ 0.0$

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

$LCH^*_e = 56.6 \ 49.8 \ 216.9$
 $LAB^*_e = 56.6 \ -39.7 \ -29.9$
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.735$

B_e blue

$LCH^*_e = 37.9 \ 45.4 \ 271.7$
 $LAB^*_e = 37.9 \ 1.3 \ -45.4$
 $rgb^*_{de} = 0.0 \ 0.374 \ 1.0$

R_e red

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

M_e blue-red

$LCH^*_e = 34.8 \ 57.7 \ 328.6$
 $LAB^*_e = 34.8 \ 49.2 \ -30.0$
 $rgb^*_{de} = 0.407 \ 0.0 \ 1.0$

Y_s yellow

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

G_s green

$LCH^*_s = 55.1 \ 70.1 \ 150.0$
 $LAB^*_s = 55.1 \ -60.7 \ 35.0$
 $rgb^*_{ds} = 0.074 \ 1.0 \ 0.0$

R_s red

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

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^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

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:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

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:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

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^*_e produce the output of the device-independent elementary hues

1-103630-L0 QE340-72 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

TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
48 step hue circles; $rgb-LabCh^*$ -tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

Output: Offset standard print; separation cmy6*, D65, page 7/33

see similar files: <http://130.149.60.45/~farbmetrik/QE34/QE34L0FA.TXT>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation cmy6* (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmycn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM_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}	$LAB^*_{dd64M}(x=LabCh)$	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd64M}	$LAB^*_{dd64M}(x=LabCh)$	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd64M}	$LAB^*_{dd64M}(x=LabCh)$	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$						
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	0.084	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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									

Data of Maximum color M in colorimetric system Offset standard print; separation cmyrn6*, 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^*_{dd64M}	$x=LabCh$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	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
40.4	37.5	33.8	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4
50.0	45.0	42.1	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0
61.1	52.5	50.5	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1
71.4	60.0	58.8	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
81.7	67.5	67.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7
88.5	75.0	75.6	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5
93.6	82.5	83.9	1.0	0.875	0.0	84.2	-5.7	89.4	89.6	93.6
97.1	90.0	92.3	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
100.3	97.5	101.0	0.875	1.0	0.0	85.8	-16.2	88.6	90.0	100.3
103.3	105.0	109.7	0.75	1.0	0.0	82.9	-19.7	83.0	85.3	103.3
108.3	112.5	118.5	0.625	1.0	0.0	77.0	-25.2	76.3	80.4	108.3
115.3	120.0	127.2	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
122.4	127.5	136.0	0.375	1.0	0.0	68.9	-36.9	58.1	68.8	122.4
134.9	135.0	144.7	0.25	1.0	0.0	60.8	-47.8	47.8	67.6	134.9
144.6	142.5	153.4	0.125	1.0	0.0	57.4	-54.9	38.9	67.3	144.6
157.7	150.0	162.2	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
163.7	157.5	169.0	0.0	1.0	0.125	52.5	-66.4	19.3	69.1	163.7
170.9	165.0	175.9	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170.9
181.0	172.5	182.7	0.0	1.0	0.375	54.1	-56.9	-1.0	56.9	181.0
193.5	180.0	189.6	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
205.9	187.5	196.4	0.0	1.0	0.625	55.8	-45.1	-21.9	50.1	205.9
218.4	195.0	203.2	0.0	1.0	0.75	56.7	-38.9	-30.9	49.7	218.4
227.3	202.5	210.1	0.0	1.0	0.875	57.5	-34.3	-37.2	50.6	227.3
236.1	210.0	216.9	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
240.3	217.5	223.8	0.0	0.875	1.0	55.2	-25.0	-43.9	50.5	240.3
245.8	225.0	230.6	0.0	0.75	1.0	51.7	-19.7	-44.1	48.3	245.8
252.5	232.5	237.5	0.0	0.625	1.0	47.7	-13.9	-44.4	46.5	252.5
262.3	240.0	244.3	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
271.7	247.5	251.2	0.0	0.375	1.0	37.9	1.3	-45.4	45.4	271.7
281.6	255.0	258.0	0.0	0.25	1.0	33.3	9.4	-46.0	47.0	281.6
290.3	262.5	264.8	0.0	0.125	1.0	28.6	17.4	-46.9	50.1	290.3
296.4	270.0	271.7	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
306.7	277.5	278.8	0.125	0.0	1.0	29.3	31.8	-42.6	53.1	306.7
312.7	285.0	285.9	0.25	0.0	1.0	31.5	36.2	-39.2	53.4	312.7
326.7	292.5	293.0	0.375	0.0	1.0	33.8	47.6	-31.2	56.9	326.7
333.9	300.0	300.1	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
339.6	307.5	307.2	0.625	0.0	1.0	40.9	58.8	-21.8	62.7	339.6
347.2	315.0	314.3	0.75	0.0	1.0	43.1	65.9	-14.9	67.6	347.2
350.2	322.5	321.4	0.875	0.0	1.0	45.9	69.4	-11.9	70.5	350.2
353.3	330.0	328.6	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
356.5	337.5	335.7	1.0	0.0	0.875	48.2	71.6	-4.3	71.7	356.5
360.3	345.0	342.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3
365.8	352.5	349.9	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8
371.6	360.0	357.0	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6
378.2	367.5	364.1	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2
383.9	375.0	371.2	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9
388.6	382.5	378.3	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6
392.8	390.0	385.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8

1-103830-L0

QE340-72

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

TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

Output: Offset standard print; separation cmyrn6*, D65, page 9/33

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation cmyrn6* (CMYK)
TUB material: code=rh4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyln6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM_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}	$LAB^*_{dd361Mi} (x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi} (x=LabCh)$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
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 0.0	1.0	0.0 0.209 47.6 64.9 30.9 71.9 25	1.0	0.017 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 69.0 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		

1-103930-L0

QE340-72

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 cmyln6*, D65, page 10/33

TUB-test chart QE34; hue code: H*d=Y00Gd
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

1-103930-F0

see similar files: <http://130.149.60.45/~farbmetrik/QE34/QE34L0FA.TXT> /PS
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation cmyln6* (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyln6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM₆: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM_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^*_{d361M}	$LAB^*_{d361Mi}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	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	0.75	0.0	88
89	76	76	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89	1.0	0.767	0.0	89
89	77	77	1.0	0.783	0.0	80.6	0.0	84.8	84.8	89	1.0	0.783	0.0	89
90	78	78	1.0	0.8	0.0	81.2	-0.9	85.7	85.7	90	1.0	0.8	0.0	90
91	79	80	1.0	0.816	0.0	81.9	-1.9	86.5	86.5	91	1.0	0.817	0.0	91
91	80	81	1.0	0.833	0.0	82.6	-3.0	87.4	87.4	91	1.0	0.833	0.0	91
92	81	82	1.0	0.85	0.0	83.2	-4.0	88.2	88.3	92	1.0	0.85	0.0	92
93	82	83	1.0	0.866	0.0	83.9	-5.1	89.0	89.2	93	1.0	0.867	0.0	93
93	83	84	1.0	0.883	0.0	84.5	-6.1	89.8	90.0	93	1.0	0.883	0.0	93
94	84	85	1.0	0.9	0.0	85.1	-6.9	90.6	90.8	94	1.0	0.9	0.0	94
94	85	86	1.0	0.916	0.0	85.6	-7.7	91.3	91.7	94	1.0	0.917	0.0	94
95	86	87	1.0	0.933	0.0	86.1	-8.5	92.1	92.5	95	1.0	0.933	0.0	95
95	87	88	1.0	0.95	0.0	86.7	-9.3	92.9	93.3	95	1.0	0.95	0.0	95
96	88	90	1.0	0.966	0.0	87.2	-10.2	93.6	94.2	96	1.0	0.967	0.0	96
96	89	91	1.0	0.983	0.0	87.8	-11.1	94.3	95.0	96	1.0	0.983	0.0	96
97	90	92	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97	1.0	1.0	0.0	97
97	91	93	0.983	1.0	0.0	88.0	-12.5	94.2	95.1	97	1.0	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	0.967	1.0	0.0
98	93	95	0.95	1.0	0.0	87.3	-13.7	92.5	93.5	98	1.0	0.95	1.0	0.0
98	94	96	0.933	1.0	0.0	87.0	-14.3	91.6	92.7	98	1.0	0.933	1.0	0.0
99	95	98	0.916	1.0	0.0	86.6	-14.8	90.8	92.0	99	1.0	0.917	1.0	0.0
99	96	99	0.9	1.0	0.0	86.3	-15.4	89.9	91.2	99	1.0	0.9	1.0	0.0
100	97	100	0.883	1.0	0.0	86.0	-15.9	89.0	90.4	100	1.0	0.883	1.0	0.0
100	98	101	0.866	1.0	0.0	85.6	-16.4	88.2	89.7	100	1.0	0.867	1.0	0.0
100	99	102	0.85	1.0	0.0	85.2	-16.9	87.4	89.1	100	1.0	0.85	1.0	0.0
101	100	103	0.833	1.0	0.0	84.8	-17.4	86.7	88.4	101	1.0	0.833	1.0	0.0
101	101	105	0.816	1.0	0.0	84.5	-17.9	86.0	87.8	101	1.0	0.817	1.0	0.0
102	102	106	0.8	1.0	0.0	84.1	-18.3	85.2	87.2	102	1.0	0.8	1.0	0.0
102	103	107	0.783	1.0	0.0	83.7	-18.8	84.5	86.5	102	1.0	0.783	1.0	0.0
102	104	108	0.766	1.0	0.0	83.3	-19.2	83.7	85.9	102	1.0	0.767	1.0	0.0
103	105	109	0.75	1.0	0.0	82.9	-19.7	83.0	85.3	103	1.0	0.75	1.0	0.0
104	106	110	0.733	1.0	0.0	82.2	-20.5	82.1	84.6	104	1.0	0.733	1.0	0.0
104	107	112	0.716	1.0	0.0	81.4	-21.3	81.2	84.0	104	1.0	0.717	1.0	0.0
105	108	113	0.7	1.0	0.0	80.6	-22.0	80.3	83.3	105	1.0	0.7	1.0	0.0
106	109	114	0.683	1.0	0.0	79.8	-22.8	79.5	82.7	106	1.0	0.683	1.0	0.0
106	110	115	0.666	1.0	0.0	79.0	-23.5	78.6	82.0	106	1.0	0.667	1.0	0.0
107	111	116	0.65	1.0	0.0	78.2	-24.2	77.7	81.4	107	1.0	0.65	1.0	0.0
107	112	117	0.633	1.0	0.0	77.4	-24.9	76.8	80.7	107	1.0	0.633	1.0	0.0
108	113	119	0.616	1.0	0.0	76.8	-25.7	75.6	79.9	108	1.0	0.617	1.0	0.0
109	114	120	0.6	1.0	0.0	76.2	-26.6	74.3	78.9	109	1.0	0.6	1.0	0.0
110	115	121	0.583	1.0	0.0	75.6	-27.5	72.9	78.0	110	1.0	0.583	1.0	0.0
111	116	122	0.566	1.0	0.0	75.0	-28.3	71.6	77.0	111	1.0	0.567	1.0	0.0
112	117	123	0.55	1.0	0.0	74.5	-29.1	70.2	76.0	112	1.0	0.55	1.0	0.0
113	118	124	0.533	1.0	0.0	73.9	-29.9	68.8	75.0	113	1.0	0.533	1.0	0.0
114	119	126	0.516	1.0	0.0	73.3	-30.6	67.4	74.1	114	1.0	0.517	1.0	0.0
115	120	127	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115	1.0	0.5	1.0	0.0

1-1031030-L0 QE340-72 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 cmyln6*, D65, page 11/33

TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation cmyln6* (CMYK)

TUB material: code=rha4ta

Output: Offset standard print; separation cmyn6*, D65, page 12/33

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$



Data of Maximum color M in colorimetric system Offset standard print; separation cmyrn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_c: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM_c: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	LAB^*_{d361Mi} (x=LabCh)	$rgb^*_{ds361Mi}$	LAB^*_{d361Mi} (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	LAB^*_{d361Mi} (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$							
170	165	175	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170
172	166	176	0.0	1.0	0.266	53.4	-61.4	8.2	61.9	172	0.0	1.0	0.267	53.8	-59.2	3.3	59.4	176
173	167	177	0.0	1.0	0.283	53.5	-60.8	6.7	61.2	173	0.0	1.0	0.283	53.8	-58.7	2.3	58.9	177
175	168	178	0.0	1.0	0.3	53.6	-60.2	5.2	60.4	175	0.0	1.0	0.3	53.9	-58.3	1.4	58.4	178
176	169	179	0.0	1.0	0.316	53.7	-59.5	3.7	59.6	176	0.0	1.0	0.317	54.0	-57.7	0.4	57.8	179
177	170	180	0.0	1.0	0.333	53.8	-58.8	2.3	58.9	177	0.0	1.0	0.333	54.1	-57.2	-0.4	57.3	180
179	171	181	0.0	1.0	0.35	53.9	-58.1	0.9	58.1	179	0.0	1.0	0.35	54.1	-56.8	-1.3	56.9	181
180	172	182	0.0	1.0	0.366	54.0	-57.3	-0.4	57.3	180	0.0	1.0	0.367	54.2	-56.4	-2.2	56.5	182
181	173	183	0.0	1.0	0.383	54.1	-56.6	-1.8	56.6	181	0.0	1.0	0.383	54.2	-56.0	-3.1	56.2	183
183	174	184	0.0	1.0	0.4	54.2	-55.9	-3.5	56.0	183	0.0	1.0	0.4	54.3	-55.7	-3.9	55.9	184
185	175	185	0.0	1.0	0.416	54.3	-55.2	-5.0	55.5	185	0.0	1.0	0.417	54.3	-55.3	-4.8	55.6	185
186	176	186	0.0	1.0	0.433	54.4	-54.5	-6.6	54.9	186	0.0	1.0	0.433	54.4	-54.9	-5.6	55.3	186
188	177	186	0.0	1.0	0.45	54.5	-53.7	-8.0	54.3	188	0.0	1.0	0.45	54.4	-54.4	-6.5	54.9	186
190	178	187	0.0	1.0	0.466	54.6	-52.8	-9.5	53.7	190	0.0	1.0	0.467	54.5	-54.0	-7.3	54.6	187
191	179	188	0.0	1.0	0.483	54.7	-52.0	-10.9	53.1	191	0.0	1.0	0.483	54.6	-53.6	-8.1	54.3	188
193	180	189	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193	0.0	1.0	0.5	54.6	-53.1	-8.9	54.0	189
195	181	190	0.0	1.0	0.516	54.9	-50.4	-13.7	52.2	195	0.0	1.0	0.517	54.7	-52.6	-9.7	53.6	190
196	182	191	0.0	1.0	0.533	55.1	-49.6	-15.0	51.9	196	0.0	1.0	0.533	54.7	-52.2	-10.5	53.3	191
198	183	192	0.0	1.0	0.55	55.2	-48.9	-16.3	51.6	198	0.0	1.0	0.55	54.8	-51.7	-11.2	53.0	192
200	184	193	0.0	1.0	0.566	55.3	-48.1	-17.6	51.2	200	0.0	1.0	0.567	54.8	-51.2	-12.0	52.7	193
201	185	194	0.0	1.0	0.583	55.5	-47.3	-18.9	50.9	201	0.0	1.0	0.583	54.9	-50.8	-12.7	52.5	194
203	186	195	0.0	1.0	0.6	55.6	-46.4	-20.1	50.6	203	0.0	1.0	0.6	55.0	-50.4	-13.5	52.3	195
205	187	195	0.0	1.0	0.616	55.7	-45.5	-21.3	50.3	205	0.0	1.0	0.617	55.0	-50.0	-14.3	52.1	195
206	188	196	0.0	1.0	0.633	55.8	-44.7	-22.5	50.1	206	0.0	1.0	0.633	55.1	-49.6	-15.0	51.9	196
208	189	197	0.0	1.0	0.65	56.0	-44.0	-23.8	50.1	208	0.0	1.0	0.65	55.2	-49.2	-15.7	51.7	197
210	190	198	0.0	1.0	0.666	56.1	-43.2	-25.0	50.0	210	0.0	1.0	0.667	55.3	-48.7	-16.5	51.6	198
211	191	199	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9	211	0.0	1.0	0.683	55.3	-48.3	-17.2	51.4	199
213	192	200	0.0	1.0	0.7	56.3	-41.6	-27.5	49.9	213	0.0	1.0	0.7	55.4	-47.9	-17.9	51.2	200
215	193	201	0.0	1.0	0.716	56.5	-40.8	-28.6	49.8	215	0.0	1.0	0.717	55.5	-47.4	-18.6	51.0	201
216	194	202	0.0	1.0	0.733	56.6	-39.9	-29.8	49.8	216	0.0	1.0	0.733	55.6	-46.9	-19.3	50.9	202
218	195	203	0.0	1.0	0.75	56.7	-38.9	-30.9	49.7	218	0.0	1.0	0.75	55.6	-46.5	-19.9	50.7	203
219	196	204	0.0	1.0	0.766	56.8	-38.4	-31.7	49.8	219	0.0	1.0	0.767	55.7	-46.0	-20.6	50.5	204
220	197	205	0.0	1.0	0.783	56.9	-37.8	-32.6	49.9	220	0.0	1.0	0.783	55.8	-45.5	-21.3	50.3	205
221	198	206	0.0	1.0	0.8	57.0	-37.2	-33.5	50.1	221	0.0	1.0	0.8	55.8	-45.0	-21.9	50.2	206
223	199	206	0.0	1.0	0.816	57.1	-36.6	-34.3	50.2	223	0.0	1.0	0.817	55.9	-44.6	-22.6	50.2	206
224	200	207	0.0	1.0	0.833	57.3	-36.0	-35.2	50.3	224	0.0	1.0	0.833	56.0	-44.2	-23.3	50.1	207
225	201	208	0.0	1.0	0.85	57.4	-35.3	-36.0	50.4	225	0.0	1.0	0.85	56.0	-43.8	-24.0	50.1	208
226	202	209	0.0	1.0	0.866	57.5	-34.6	-36.8	50.6	226	0.0	1.0	0.867	56.1	-43.4	-24.7	50.1	209
227	203	210	0.0	1.0	0.883	57.6	-34.0	-37.7	50.8	227	0.0	1.0	0.883	56.2	-43.0	-25.4	50.0	210
229	204	211	0.0	1.0	0.9	57.7	-33.4	-38.6	51.0	229	0.0	1.0	0.9	56.3	-42.5	-26.0	50.0	211
230	205	212	0.0	1.0	0.916	57.8	-32.8	-39.4	51.3	230	0.0	1.0	0.917	56.3	-42.1	-26.7	50.0	212
231	206	213	0.0	1.0	0.933	57.9	-32.1	-40.3	51.6	231	0.0	1.0	0.933	56.4	-41.6	-27.3	49.9	213
232	207	214	0.0	1.0	0.95	58.0	-31.4	-41.2	51.8	232	0.0	1.0	0.95	56.5	-41.1	-28.0	49.9	214
233	208	215	0.0	1.0	0.966	58.1	-30.7	-42.0	52.1	233	0.0	1.0	0.967	56.5	-40.7	-28.6	49.9	215
235	209	216	0.0	1.0	0.983	58.2	-30.0	-42.9	52.3	235	0.0	1.0	0.983	56.6	-40.2	-29.2	49.8	216
236	210	216	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236	0.0	1.0	1.0	56.7	-39.7	-29.9	49.8	216

1-1031230-L0 QE340-72 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 cmyrn6*, D65, page 13/33

TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

TUB registration: 20130201-QE34/QE34L0FA.TXT /PS
application for measurement of offset print output, separation cmyrn6* (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmyrn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM_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	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$210C_s$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$216C_e$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																
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	0.736	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	0.745	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	0.755	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	0.768	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	0.781	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	0.794	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	0.807	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	0.819	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	0.832	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	0.845	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	0.858	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	0.871	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	0.884	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	0.896	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	0.909	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	0.922	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	0.935	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	0.948	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	0.961	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	0.974	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	0.987	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	0.999	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	0.974	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	0.947	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	0.919	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	0.892	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	0.867	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	0.847	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	0.826	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	0.805	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	0.785	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	0.764	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	0.745	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	0.727	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	0.71	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	0.693	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																			

Output: Offset standard print; separation cmyn6*, D65, page 15/33

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

Data of Maximum color M in colorimetric system Offset standard print; separation cmy6*, 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^*_{d361Mi}		$LAB^*_{dsx361Mi}$		$rgb^*_{dd361Mi}$		$rgb^*_{de361Mi}$		$LAB^*_{dex361Mi}$		$rgb^*_{dd361Mi}$		$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{de361Mi}$																
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	0.555	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	0.555	0.0	1.0	0.08	0.0	1.0	27.9	28.9	-44.4	53.1	303	0.555	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	0.432	0.0	1.0	35.7	50.5	-29.1	58.3	330	1.0	0.0	1.0	0.407	0.0	1.0	34.9	49.3	-30.0	57.7	328	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																					

see similar files: <http://130.149.60.45/~farbmeterik/QE34/QE34.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmeterik>

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 $RYGBM_s$: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

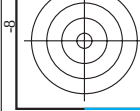
[illegible]

Output: Offset standard print; separation cmyn6*, D65, page 17/38

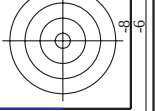
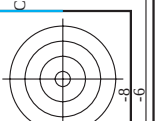
TUB-test chart QE34; hue code: $H^*_d=Y00G_d$
48 step hue circles; *rgb-LabCh** tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

-see similar files: <http://130.149.60.45/~farbmetrik/QE34/QE34.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



TUB registration: 20130201-QE34/QE34L0FA.TXT /.PS
TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6* (CMYK)



http://130.149.60.45/~farbmatrik/QE34/QE34L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE34/QE34L0FA.DAT in file (F), page 28/33

input: rgb/cmyk -> rgbd
output: 3D-linearization to cmyk*dd

n	HC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCH*Fid	cmyk*sep_Fid	hsa_id	rgb*id	LabCH*id	delta
648	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
649	R38Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
650	R13Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
651	R23Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
652	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
653	R68R_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
654	B61R_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
655	B55R_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
656	B50R_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
657	R11Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
658	R00Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
659	R38Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
660	R13Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
661	R23Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
662	R00Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
663	R68R_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
664	B61R_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
665	B55R_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
666	B50R_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
667	R11Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
668	R00Y_100_097ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
669	R38Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
670	R13Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
671	R23Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
672	R00Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
673	R68R_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
674	B61R_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
675	B55R_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
676	B50R_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
677	R11Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
678	R00Y_100_075ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
679	R38Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
680	R13Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
681	R23Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
682	R00Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
683	R68R_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
684	B61R_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
685	B55R_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
686	B50R_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
687	R11Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
688	R00Y_100_062ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
689	R38Y_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
690	R13Y_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
691	R23Y_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
692	R00Y_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
693	R68R_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
694	B61R_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
695	B55R_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
696	B50R_100_050ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
697	R11Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
698	R00Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
699	R38Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
700	R13Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
701	R23Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
702	R00Y_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
703	R68R_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
704	B61R_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
705	B55R_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
706	B50R_100_037ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
707	R11Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
708	R00Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
709	R38Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
710	R13Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
711	R23Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
712	R00Y_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
713	R68R_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
714	B61R_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
715	B55R_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
716	B50R_100_025ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
717	R11Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
718	R00Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
719	R38Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
720	R13Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
721	R23Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
722	R00Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
723	R68R_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
724	B61R_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
725	B55R_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
726	B50R_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
727	R11Y_100_012ad	1.0	0.0	0.0	0.0	47.3	63.8	389	1.0	0.0	0.0
728	NW_100ad	1.0	1.0	1.0	1.0	95.4	0.0	360	1.0	1.0	0.0

see similar files: <http://130.149.60.45/~farbmatrik/QE34/QE34L0FA.TXT> /.PS
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB-test chart QE34: hue code: H*d=Y00Gd
colors and differences, ΔE*



see similar files: <http://130.149.60.45/~farbmatrik/QE34/QE34.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/QE34/QE34L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE34/QE34LE30FA.DAT in file (F), page 29/33

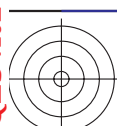
[illegible]

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DE340-7N, Page 29/33-F

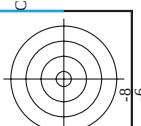
TUB-test chart QE34; hue code: $H_d^* = Y00G_d$
colors and differences, ΔE^*

input: *rgb/cmyk* $\rightarrow$ *rgb_{dd}*
output: 3D-linearization to *cmyk*_{dd}*



TUB registration: 20130201-QE34/QE34L0FA.TXT /.PS
- application for measurement of offset print output, separate

TUB material: code=rha4ta
nyn6* (CMYK)



http://130.149.60.45/~farbmatrik/QE34/QE34L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE34/QE34LE30FA.DAT in file (F), page 32/33

n	HIC*F _{old}	rgb_F _{old}	lct_F _{old}	hsa_F _{old}	rgb*F _{old}	LabCH*F _{old}	cmv* _{sep} F _{old}	hsa _{old}	rgb _{old}	LabCH _{old}	Mean color difference of this page:	
											delta	delta
972	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
973	NW_0124 _{old}	0.125	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0	0.0
974	NW_0254 _{old}	0.25	0.25	0.25	0.25	0.0	0.0	360	1.0	1.0	0.0	0.0
975	NW_0374 _{old}	0.375	0.375	0.375	0.375	0.0	0.0	360	1.0	1.0	0.0	0.0
976	NW_0504 _{old}	0.5	0.5	0.5	0.5	0.0	0.0	360	1.0	1.0	0.0	0.0
977	NW_0624 _{old}	0.625	0.625	0.625	0.625	0.0	0.0	360	1.0	1.0	0.0	0.0
978	NW_0754 _{old}	0.75	0.75	0.75	0.75	0.0	0.0	360	1.0	1.0	0.0	0.0
979	NW_0874 _{old}	0.875	0.875	0.875	0.875	0.0	0.0	360	1.0	1.0	0.0	0.0
980	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
981	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
982	NW_0124 _{old}	0.125	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0	0.0
983	NW_0254 _{old}	0.25	0.25	0.25	0.25	0.0	0.0	360	1.0	1.0	0.0	0.0
984	NW_0374 _{old}	0.375	0.375	0.375	0.375	0.0	0.0	360	1.0	1.0	0.0	0.0
985	NW_0504 _{old}	0.5	0.5	0.5	0.5	0.0	0.0	360	1.0	1.0	0.0	0.0
986	NW_0624 _{old}	0.625	0.625	0.625	0.625	0.0	0.0	360	1.0	1.0	0.0	0.0
987	NW_0754 _{old}	0.75	0.75	0.75	0.75	0.0	0.0	360	1.0	1.0	0.0	0.0
988	NW_0874 _{old}	0.875	0.875	0.875	0.875	0.0	0.0	360	1.0	1.0	0.0	0.0
989	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
990	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
991	NW_0124 _{old}	0.125	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0	0.0
992	NW_0254 _{old}	0.25	0.25	0.25	0.25	0.0	0.0	360	1.0	1.0	0.0	0.0
993	NW_0374 _{old}	0.375	0.375	0.375	0.375	0.0	0.0	360	1.0	1.0	0.0	0.0
994	NW_0504 _{old}	0.5	0.5	0.5	0.5	0.0	0.0	360	1.0	1.0	0.0	0.0
995	NW_0624 _{old}	0.625	0.625	0.625	0.625	0.0	0.0	360	1.0	1.0	0.0	0.0
996	NW_0754 _{old}	0.75	0.75	0.75	0.75	0.0	0.0	360	1.0	1.0	0.0	0.0
997	NW_0874 _{old}	0.875	0.875	0.875	0.875	0.0	0.0	360	1.0	1.0	0.0	0.0
998	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
999	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1000	NW_0124 _{old}	0.125	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0	0.0
1001	NW_0254 _{old}	0.25	0.25	0.25	0.25	0.0	0.0	360	1.0	1.0	0.0	0.0
1002	NW_0374 _{old}	0.375	0.375	0.375	0.375	0.0	0.0	360	1.0	1.0	0.0	0.0
1003	NW_0504 _{old}	0.5	0.5	0.5	0.5	0.0	0.0	360	1.0	1.0	0.0	0.0
1004	NW_0624 _{old}	0.625	0.625	0.625	0.625	0.0	0.0	360	1.0	1.0	0.0	0.0
1005	NW_0754 _{old}	0.75	0.75	0.75	0.75	0.0	0.0	360	1.0	1.0	0.0	0.0
1006	NW_0874 _{old}	0.875	0.875	0.875	0.875	0.0	0.0	360	1.0	1.0	0.0	0.0
1007	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1008	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1009	NW_0064 _{old}	0.066	0.066	0.066	0.066	0.0	0.0	360	1.0	1.0	0.0	0.0
1010	NW_0134 _{old}	0.133	0.133	0.133	0.133	0.0	0.0	360	1.0	1.0	0.0	0.0
1011	NW_0204 _{old}	0.2	0.2	0.2	0.2	0.0	0.0	360	1.0	1.0	0.0	0.0
1012	NW_0264 _{old}	0.266	0.266	0.266	0.266	0.0	0.0	360	1.0	1.0	0.0	0.0
1013	NW_0334 _{old}	0.333	0.333	0.333	0.333	0.0	0.0	360	1.0	1.0	0.0	0.0
1014	NW_0404 _{old}	0.4	0.4	0.4	0.4	0.0	0.0	360	1.0	1.0	0.0	0.0
1015	NW_0464 _{old}	0.466	0.466	0.466	0.466	0.0	0.0	360	1.0	1.0	0.0	0.0
1016	NW_0534 _{old}	0.533	0.533	0.533	0.533	0.0	0.0	360	1.0	1.0	0.0	0.0
1017	NW_0604 _{old}	0.6	0.6	0.6	0.6	0.0	0.0	360	1.0	1.0	0.0	0.0
1018	NW_0664 _{old}	0.666	0.666	0.666	0.666	0.0	0.0	360	1.0	1.0	0.0	0.0
1019	NW_0734 _{old}	0.734	0.734	0.734	0.734	0.0	0.0	360	1.0	1.0	0.0	0.0
1020	NW_0804 _{old}	0.8	0.8	0.8	0.8	0.0	0.0	360	1.0	1.0	0.0	0.0
1021	NW_0864 _{old}	0.866	0.866	0.866	0.866	0.0	0.0	360	1.0	1.0	0.0	0.0
1022	NW_0934 _{old}	0.933	0.933	0.933	0.933	0.0	0.0	360	1.0	1.0	0.0	0.0
1023	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1024	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1025	NW_0064 _{old}	0.066	0.066	0.066	0.066	0.0	0.0	360	1.0	1.0	0.0	0.0
1026	NW_0134 _{old}	0.133	0.133	0.133	0.133	0.0	0.0	360	1.0	1.0	0.0	0.0
1027	NW_0204 _{old}	0.2	0.2	0.2	0.2	0.0	0.0	360	1.0	1.0	0.0	0.0
1028	NW_0264 _{old}	0.266	0.266	0.266	0.266	0.0	0.0	360	1.0	1.0	0.0	0.0
1029	NW_0334 _{old}	0.333	0.333	0.333	0.333	0.0	0.0	360	1.0	1.0	0.0	0.0
1030	NW_0404 _{old}	0.4	0.4	0.4	0.4	0.0	0.0	360	1.0	1.0	0.0	0.0
1031	NW_0464 _{old}	0.466	0.466	0.466	0.466	0.0	0.0	360	1.0	1.0	0.0	0.0
1032	NW_0534 _{old}	0.533	0.533	0.533	0.533	0.0	0.0	360	1.0	1.0	0.0	0.0
1033	NW_0604 _{old}	0.6	0.6	0.6	0.6	0.0	0.0	360	1.0	1.0	0.0	0.0
1034	NW_0664 _{old}	0.666	0.666	0.666	0.666	0.0	0.0	360	1.0	1.0	0.0	0.0
1035	NW_0734 _{old}	0.734	0.734	0.734	0.734	0.0	0.0	360	1.0	1.0	0.0	0.0
1036	NW_0804 _{old}	0.8	0.8	0.8	0.8	0.0	0.0	360	1.0	1.0	0.0	0.0
1037	NW_0864 _{old}	0.866	0.866	0.866	0.866	0.0	0.0	360	1.0	1.0	0.0	0.0
1038	NW_0934 _{old}	0.933	0.933	0.933	0.933	0.0	0.0	360	1.0	1.0	0.0	0.0
1039	NW_1004 _{old}	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1040	NW_0004 _{old}	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0	0.0
1041	NW_0064 _{old}	0.066	0.066	0.066	0.066	0.0	0.0	360	1.0	1.0	0.0	0.0
1042	NW_0134 _{old}	0.133	0.133	0.133	0.133	0.0	0.0	360	1.0	1.0	0.0	0.0
1043	NW_0204 _{old}	0.2	0.2	0.2	0.2	0.0	0.0	360	1.0	1.0	0.0	0.0
1044	NW_0264 _{old}	0.266	0.266	0.266	0.266	0.0	0.0	360	1.0	1.0	0.0	0.0
1045	NW_0334 _{old}	0.333	0.333	0.333	0.333	0.0	0.0	360	1.0	1.0	0.0	0.0
1046	NW_0404 _{old}	0.4	0.4	0.4	0.4	0.0	0.0	360	1.0	1.0	0.0	0.0
1047	NW_0464 _{old}	0.466	0.466	0.466	0.466	0.0	0.0	360	1.0	1.0	0.0	0.0
1048	NW_0534 _{old}	0.533	0.533	0.533	0.533	0.0	0.0	360	1.0	1.0	0.0	0.0
1049	NW_0604 _{old}	0.6	0.6	0.6	0.6	0.0	0.0	360	1.0	1.0	0.0	0.0
1050	NW_0664 _{old}	0.666	0.666	0.666	0.666	0.0	0.0	360	1.0	1.0	0.0	0.0
1051	NW_0734 _{old}	0.734	0.734	0.734	0.734	0.0	0.0	360	1.0	1.0	0.0	0.0
1052	NW_0804 _{old}	0.8	0.8	0.8	0.8	0.0	0.0	360	1.0	1.0	0.0	0.0

-1033130-F0

QE340-7N, Page 32/33-F

input: *rgb/cmyk* $\rightarrow$ *rgbd*
output: 3D-linearization to *cmyk***dd*

TUB-test chart QE34; hue code: H_d^{*}=Y00G_d

1-1033130-F0

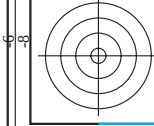
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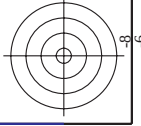
1

5

9.



see similar files: <http://130.149.60.45/~farbmatrik/QE34/QE34.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



TUB registration: 20130201-QE34/QE34L0FA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmyn6* (CMYK)

n	HC*Fid	rgb_Fid	ic*_Fid	hs*_Fid	rgb*_Fid	LabCH*_Fid	cmyn*_sep_Fid	cmyn*_sep_Fdd	0.007	0.0	0.179	hsv*_dd	rgb*_dd	LabCH*_dd	0.0	0.0
1053	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	85.0 0.0 0.0	0.024 0.007 0.0	0.024 0.007 0.0	0.007	0.0	0.179	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1054	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	90.2 0.0 0.0	0.02 0.005 0.0	0.02 0.005 0.0	0.005	0.0	0.084	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1055	NW_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	1.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1056	NW_006dd	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	22.8 0.0 0.0	0.139 0.022 0.0	0.139 0.022 0.0	0.043	0.048	0.933	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1057	NW_013dd	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	28.0 0.0 0.0	0.057 0.036 0.0	0.057 0.036 0.0	0.015	0.0825	0.871	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1059	NW_020dd	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2	33.2 0.0 0.0	0.013 0.016 0.0	0.013 0.016 0.0	0.015	0.0781	0.731	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1060	NW_026dd	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	38.3 0.0 0.0	0.027 0.013 0.0	0.027 0.013 0.0	0.018	0.628	0.672	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1061	NW_033dd	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	43.6 0.0 0.0	0.021 0.007 0.0	0.021 0.007 0.0	0.019	0.541	0.541	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1062	NW_040dd	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	48.8 0.0 0.0	0.006 0.005 0.0	0.006 0.005 0.0	0.006	0.478	0.478	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1063	NW_046dd	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	53.9 0.0 0.0	0.021 0.011 0.0	0.021 0.011 0.0	0.021	0.322	0.322	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1064	NW_053dd	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	59.1 0.0 0.0	0.024 0.007 0.0	0.024 0.007 0.0	0.007	0.179	0.179	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1065	NW_060dd	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	64.3 0.0 0.0	0.002 0.005 0.0	0.002 0.005 0.0	0.005	0.084	0.084	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1066	NW_066dd	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	69.5 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	1.0	1.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1067	NW_073dd	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	74.7 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1068	NW_080dd	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	79.9 0.0 0.0	0.024 0.007 0.0	0.024 0.007 0.0	0.007	0.005	0.26	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1069	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	85.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1070	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	90.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1071	NW_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1072	NW_006dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1073	NW_013dd	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	360 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0	0.0
1074	ROY_100_100dd	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	47.3 63.8 41.2	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	389 1.0 0.0	0.0 0.0 0.0	58.3 63.8 41.2	76.0	32.8
1075	G50B_100_100dd	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	58.3 -29.2 -43.7	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	210 0.0 1.0	1.0 0.0 0.0	58.3 -29.2 -43.7	52.6	236.1
1076	Y06C_100_100dd	0.0 0.0 1.0	0.0 0.0 1.0	0.0 0.0 1.0	0.0 0.0 1.0	95.1 95.8 97.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	89 1.0 0.0	0.0 0.0 0.0	95.1 95.8 97.1	97.1	95.8
1077	B06R_100_100dd	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	25.3 47.3 28.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	270 0.0 1.0	1.0 0.0 0.0	25.3 47.3 28.1	52.8	236.4
1078	B06R_100_100dd	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	51.9 68.8 28.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0	0.0	340 0.0 0.0	0.0 0.0 0.0	51.9 68.8 28.1	51.9	196.7
1079	B50R_100_100dd	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	46.2 72.8 -6.5	0.0 1.0 0.0	0.0 1.0 0.0	0.0	0.0	0.0	330 1.0 0.0	0.0 0.0 0.0	46.2 72.8 -6.5	74.3	353.3

Mean color difference of this page:

delta