

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 86/360 = 0.24$

$H^*_- = R75Y_-$

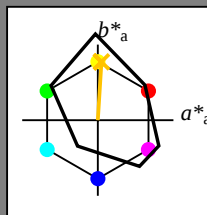
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_- = R75Y_-$

triangle lightness T^*



FRS06a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R-,Ma	32.5	62.3	46.4	77.7	36
Y-,Ma	82.7	-3.1	113.9	114.0	91
G-,Ma	39.4	-61.8	45.8	76.9	143
C-,Ma	47.8	-26.8	-34.2	43.4	231
B-,Ma	10.1	55.1	-61.0	82.2	312
M-,Ma	34.5	80.6	-33.9	87.5	337
N-,Ma	6.2	0.0	0.0	0.0	0
W-,Ma	91.9	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):

$LabCh^*_- ,Ma: 80 \ 4 \ 77 \ 77 \ 86$

$HIC^*_- ,Ma: R75Y_100_100_-$

$rgbic^*_- ,Ma:$

1.0 0.76 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

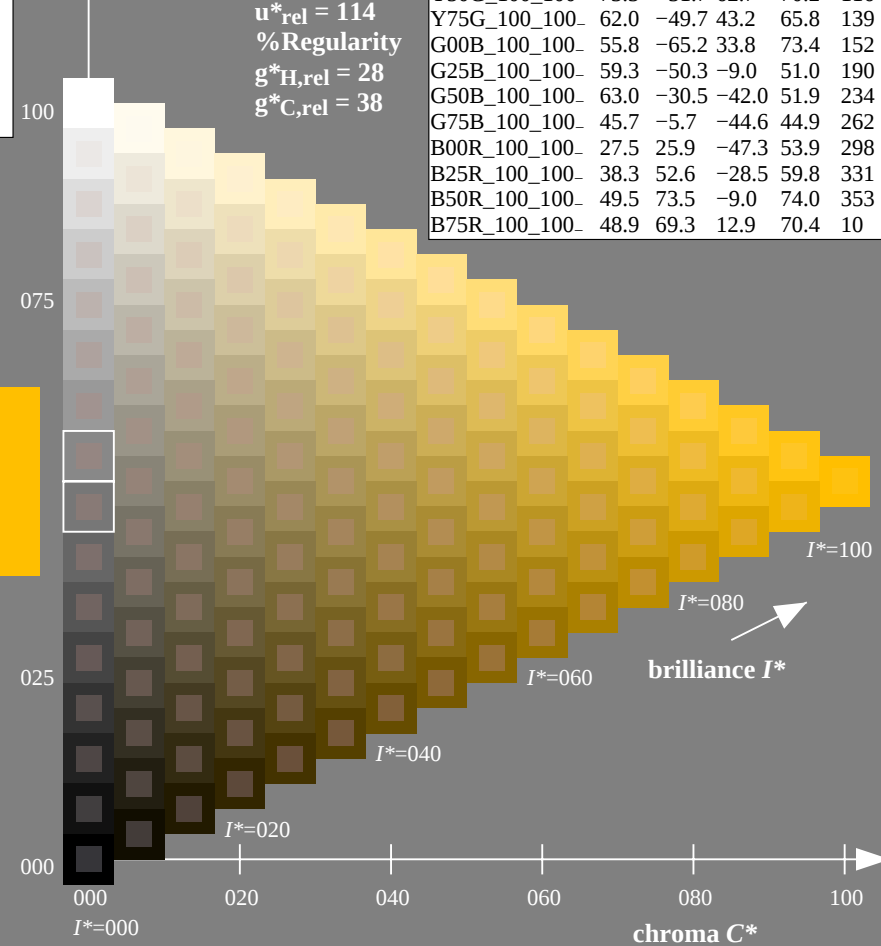
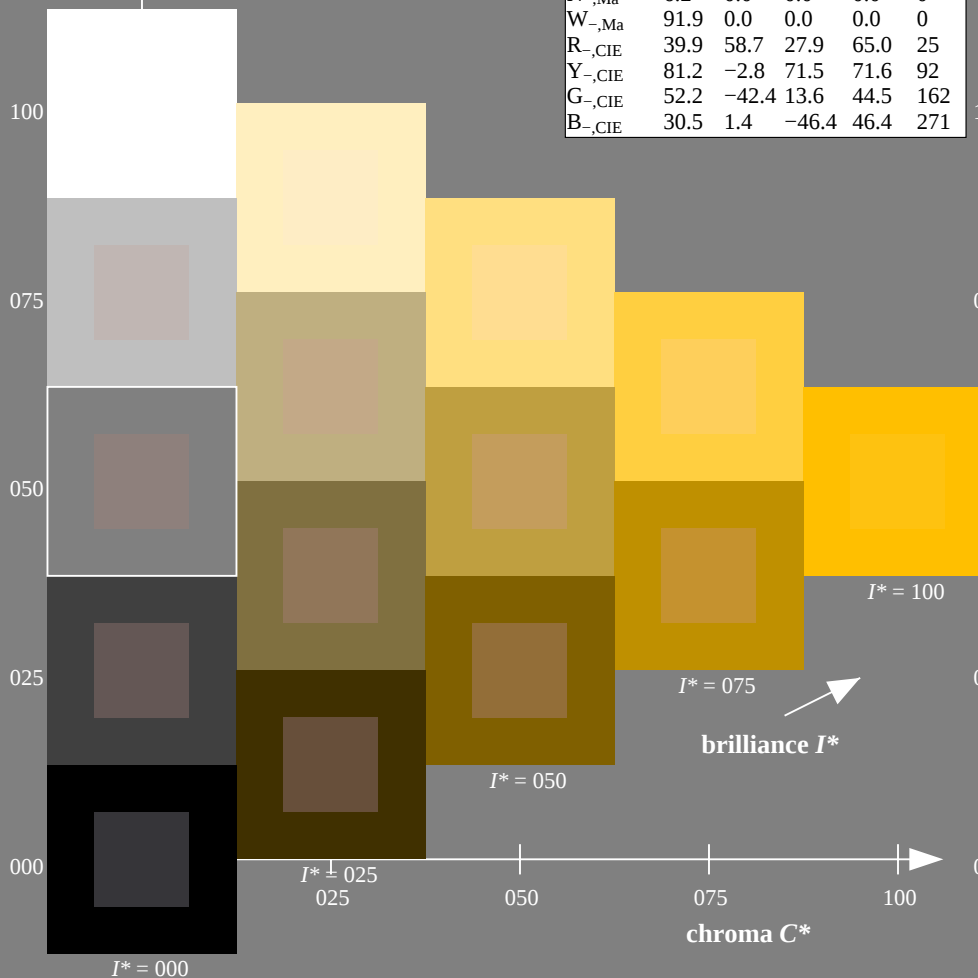
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

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



TUB-test chart QE29; hue code: $H^*_- = R75Y_-$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 92/360 = 0.25$

$H^*_d = R75Y_d$

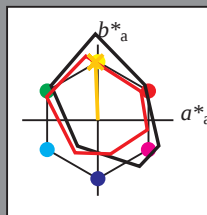
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = R75Y_d$

triangle lightness T^*



LRS18a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _d ,Ma	47.5	57.2	37.8	68.6	33
Y _d ,Ma	91.5	-15.8	84.6	86.1	100
G _d ,Ma	54.3	-67.6	30.8	74.3	155
C _d ,Ma	53.1	-30.0	-43.1	52.5	235
B _d ,Ma	32.5	16.9	-44.6	47.7	290
M _d ,Ma	48.1	65.4	-12.7	66.6	348
N _d ,Ma	23.8	0.0	0.0	0.0	0
W _d ,Ma	95.8	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):

$LabCh^*_d, Ma$: 83 -2 76 76 92

HIC^*_d, Ma : R75Y_100_100_d

$rgbic^*_d, Ma$:

1.0 0.76 0.0 1.0 1.0

triangle lightness T^*

% Gamut

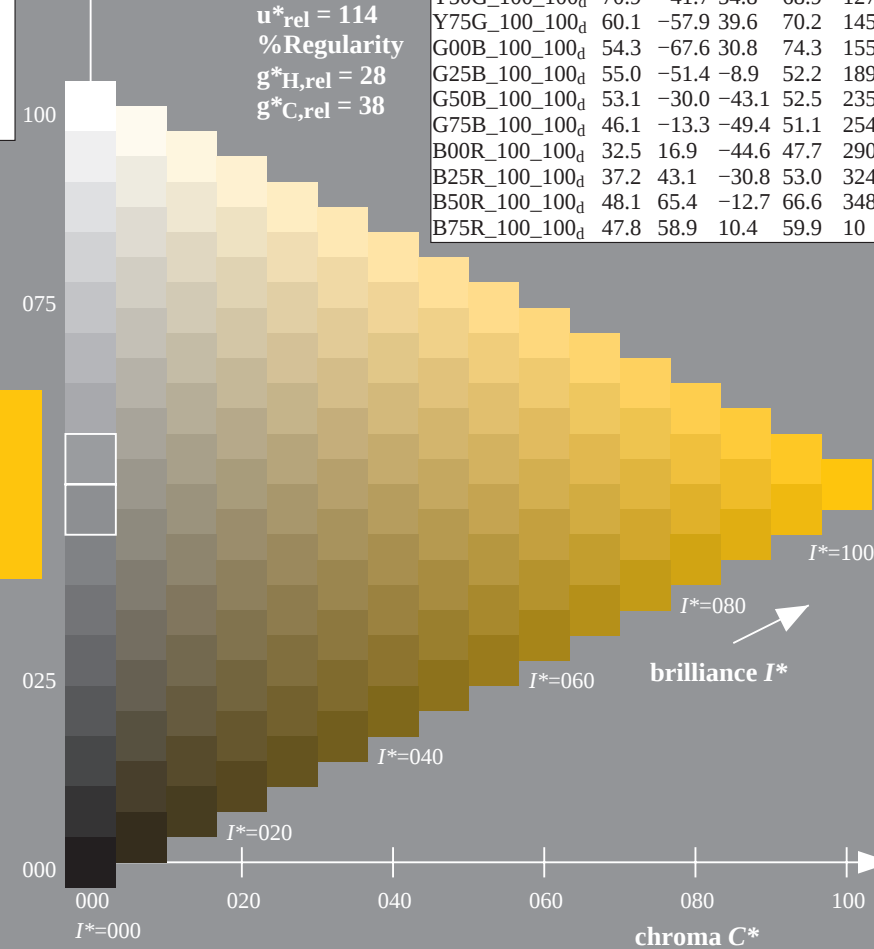
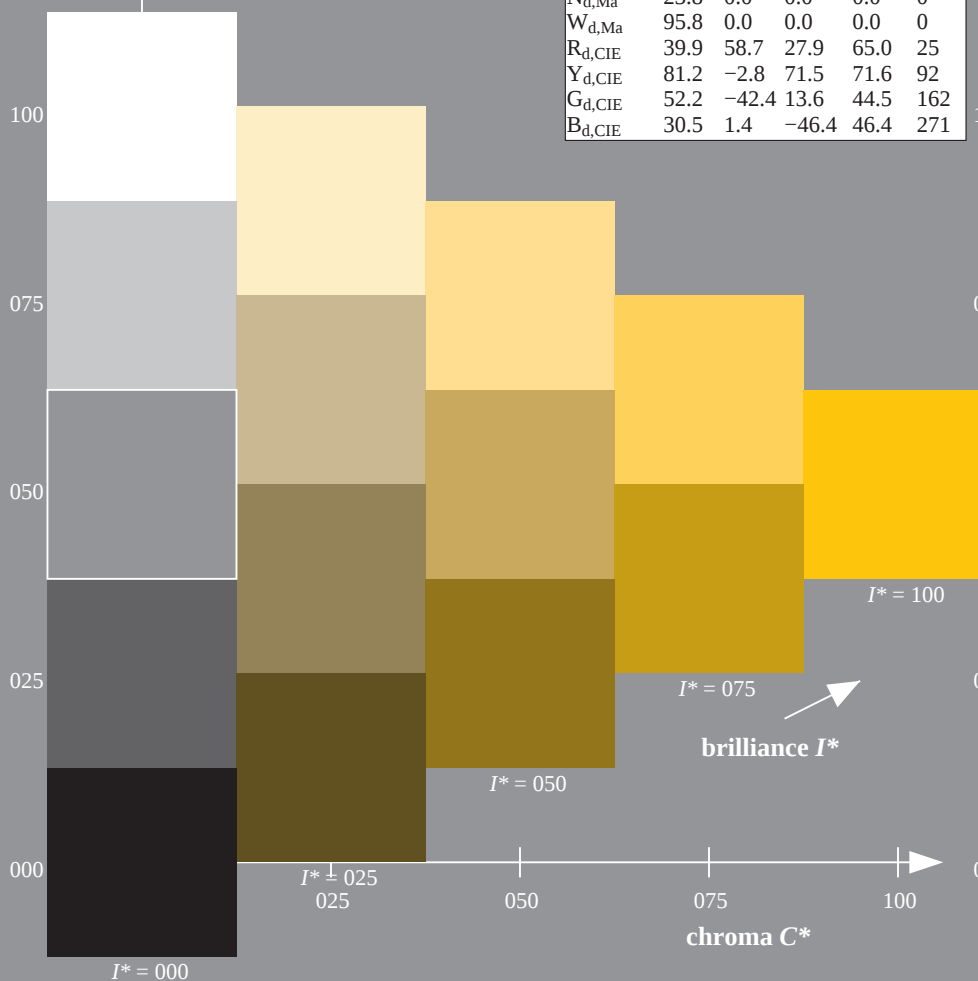
$u^*_{rel} = 114$

% Regularity

$g^*_{H,rel} = 28$

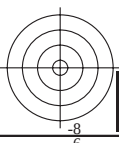
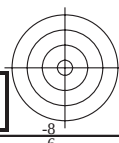
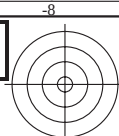
$g^*_{C,rel} = 38$

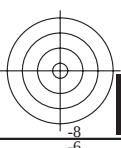
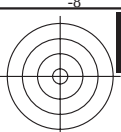
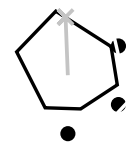
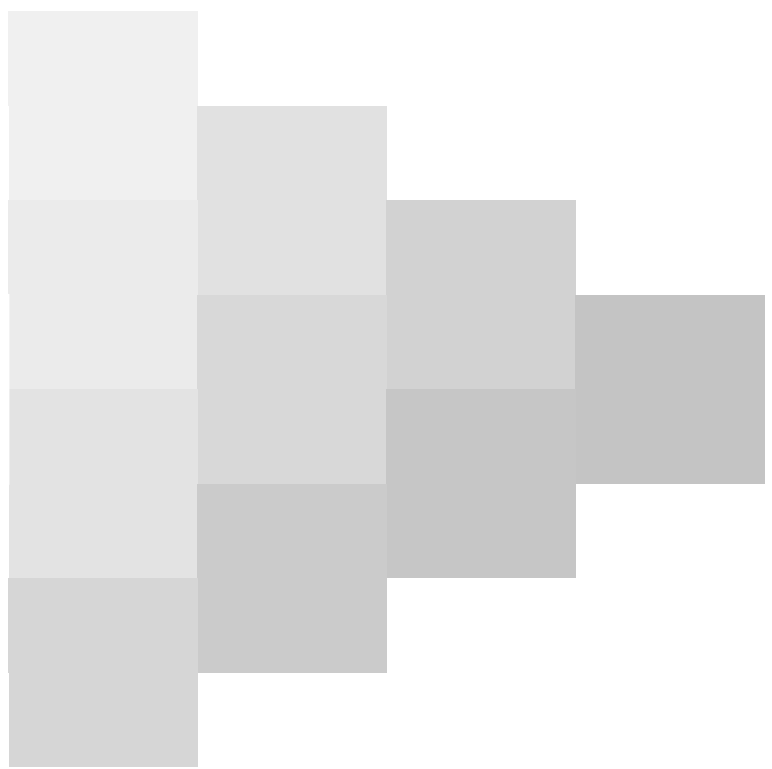
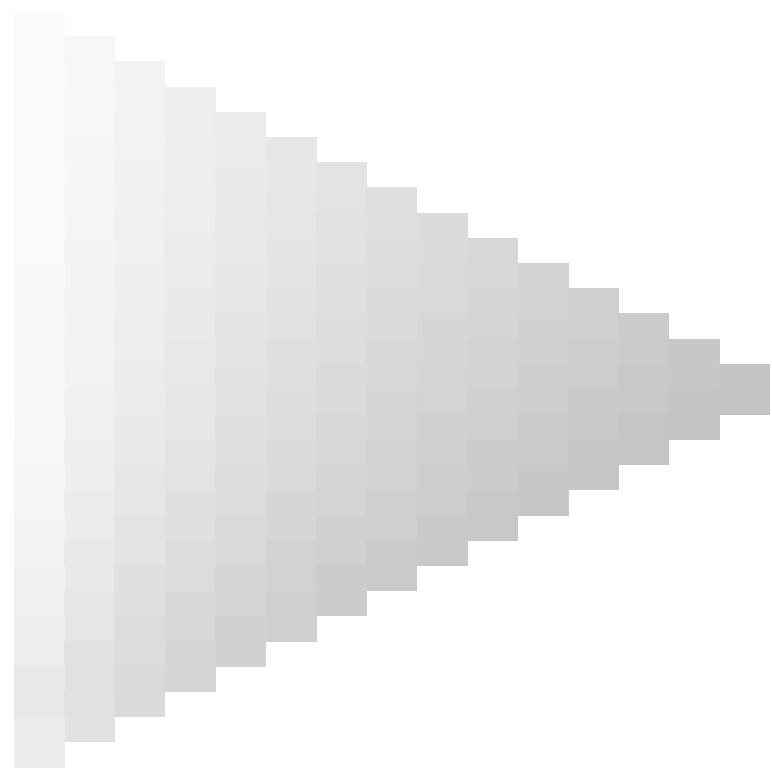
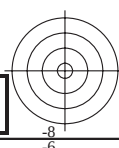
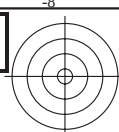
LRS18a; adapted (a) CIELAB data					
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _d	47.5	57.2	37.8	68.6	33
R25Y_100_100 _d	57.4	43.5	54.5	69.7	51
R50Y_100_100 _d	70.5	19.2	66.2	69.0	73
R75Y_100_100 _d	83.5	-2.9	76.8	76.9	92
Y00G_100_100 _d	91.5	-15.8	84.6	86.1	100
Y25G_100_100 _d	90.4	-20.9	86.5	89.0	103
Y50G_100_100 _d	70.9	-41.7	54.8	68.9	127
Y75G_100_100 _d	60.1	-57.9	39.6	70.2	145
G00B_100_100 _d	54.3	-67.6	30.8	74.3	155
G25B_100_100 _d	55.0	-51.4	-8.9	52.2	189
G50B_100_100 _d	53.1	-30.0	-43.1	52.5	235
G75B_100_100 _d	46.1	-13.3	-49.4	51.1	254
B00R_100_100 _d	32.5	16.9	-44.6	47.7	290
B25R_100_100 _d	37.2	43.1	-30.8	53.0	324
B50R_100_100 _d	48.1	65.4	-12.7	66.6	348
B75R_100_100 _d	47.8	58.9	10.4	59.9	10

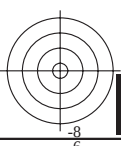
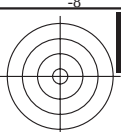
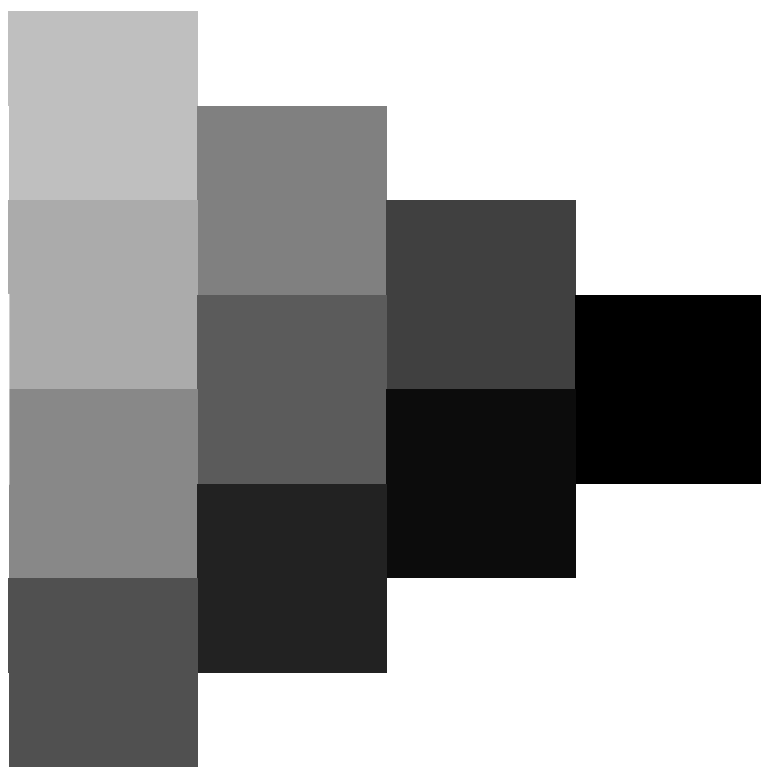
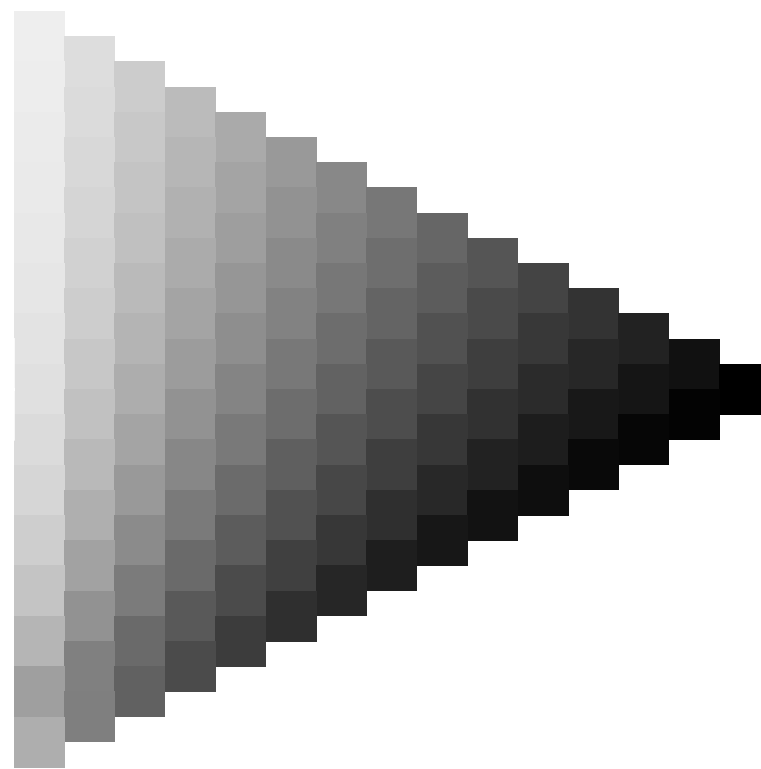
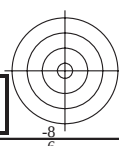
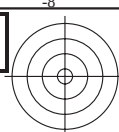


TUB-test chart QE29; hue code: $H^*_d=R75Y_d$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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







Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 92/360 = 0.25$

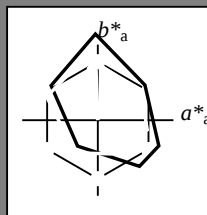
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours
of this page:

$H^*_d = R75Y_d$

triangle lightness T^*



LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{d,Ma}$	47.5	57.2	37.8	68.6	33
$Y_{d,Ma}$	91.5	-15.8	84.6	86.1	100
$G_{d,Ma}$	54.3	-67.6	30.8	74.3	155
$C_{d,Ma}$	53.1	-30.0	-43.1	52.5	235
$B_{d,Ma}$	32.5	16.9	-44.6	47.7	290
$M_{d,Ma}$	48.1	65.4	-12.7	66.6	348
$N_{d,Ma}$	23.8	0.0	0.0	0.0	0
$W_{d,Ma}$	95.8	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):

$LabCh^*_{d,Ma}$: 83 -2 76 76 92

$HIC^*_{d,Ma}$: R75Y_100_100d

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

1.0 0.76 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

% Regularity

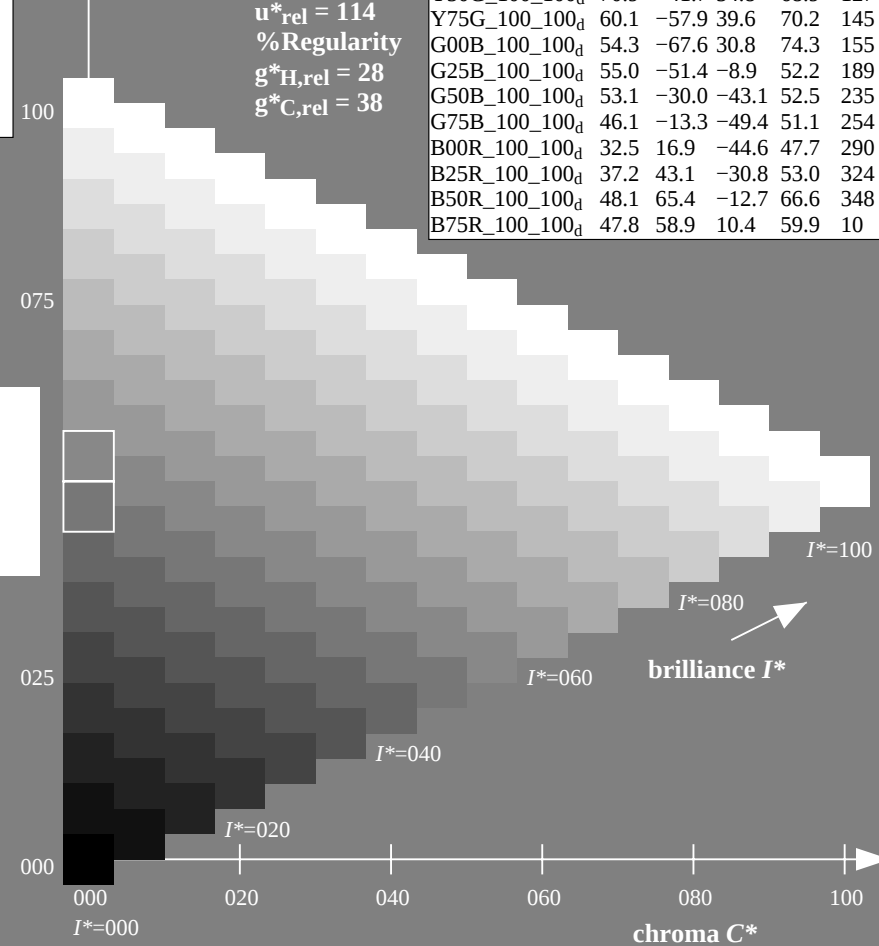
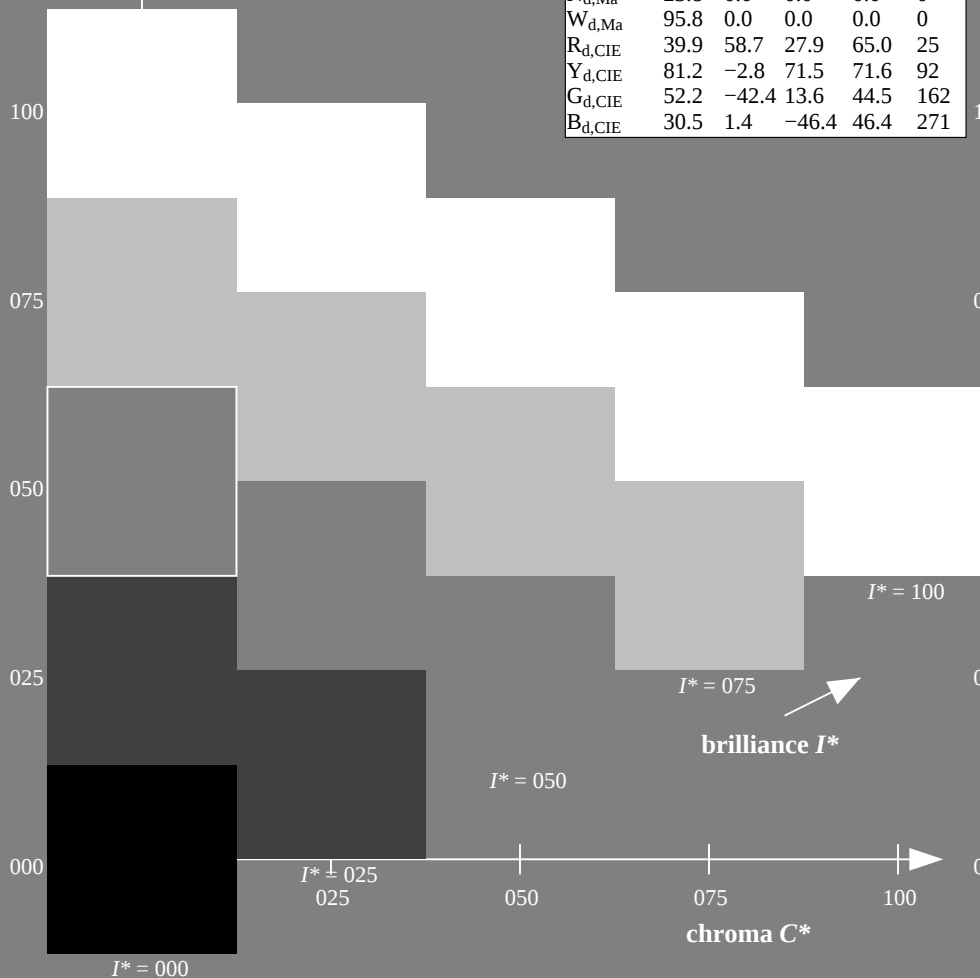
$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

$H^*_d = R75Y_d$

LRS18a; adapted (a) CIELAB data

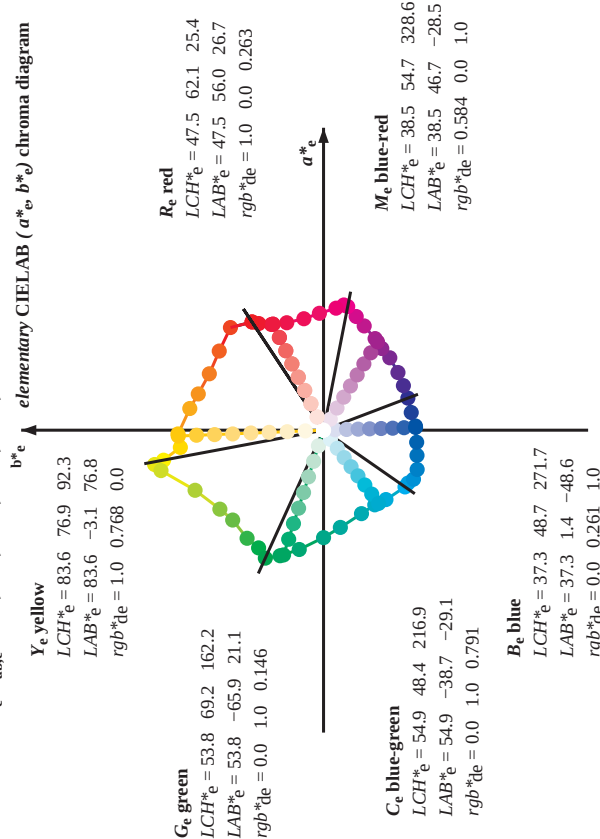
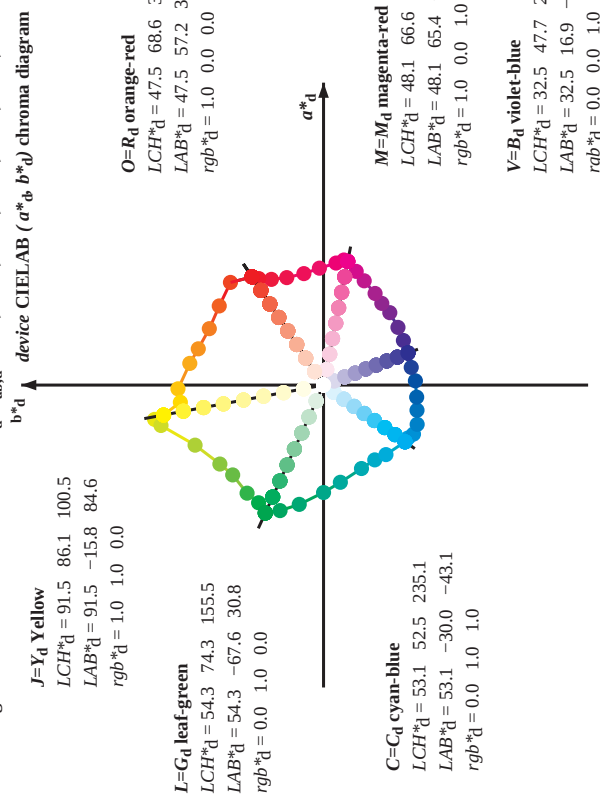
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100d	47.5	57.2	37.8	68.6	33
R25Y_100_100d	57.4	43.5	54.5	69.7	51
R50Y_100_100d	70.5	19.2	66.2	69.0	73
R75Y_100_100d	83.5	-2.9	76.8	76.9	92
Y00G_100_100d	91.5	-15.8	84.6	86.1	100
Y25G_100_100d	90.4	-20.9	86.5	89.0	103
Y50G_100_100d	70.9	-41.7	54.8	68.9	127
Y75G_100_100d	60.1	-57.9	39.6	70.2	145
G00B_100_100d	54.3	-67.6	30.8	74.3	155
G25B_100_100d	55.0	-51.4	-8.9	52.2	189
G50B_100_100d	53.1	-30.0	-43.1	52.5	235
G75B_100_100d	46.1	-13.3	-49.4	51.1	254
B00R_100_100d	32.5	16.9	-44.6	47.7	290
B25R_100_100d	37.2	43.1	-30.8	53.0	324
B50R_100_100d	48.1	65.4	-12.7	66.6	348
B75R_100_100d	47.8	58.9	10.4	59.9	10



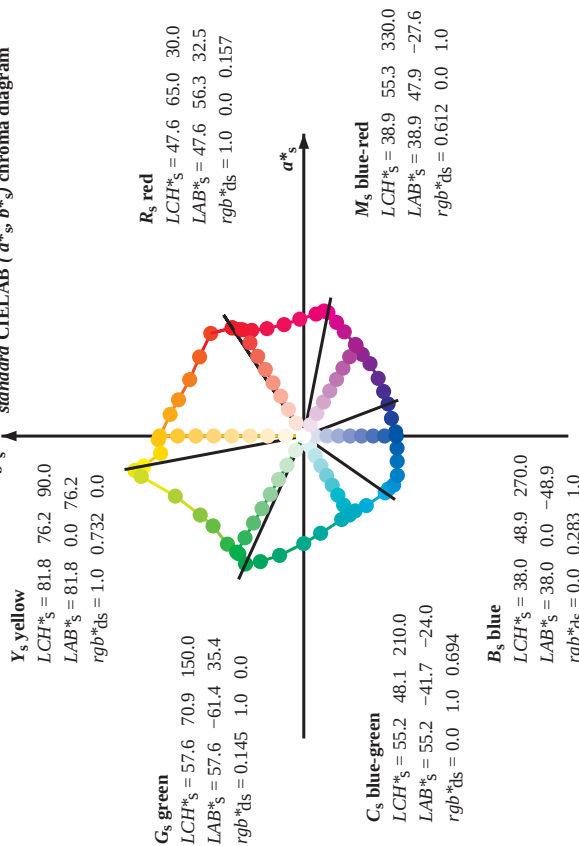
TUB-test chart QE29; hue code: $H^*_d=R75Y_d$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM; $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



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



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

- For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.
- For the calculation of the standard hue angle h_{ab} use for any device values rgb^*_e the equation:
$$h_{ab,s} = \arctan \left[\frac{r^* \cos(30) + g^* \sin(150)}{1 - r^* \sin(30) + g^* \sin(150)} \right] + b^* \sin(270) \quad (1)$$
- For the 48 or 360 equally spaced standard hue angles h_{ab} of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:
$$h_{48ab,sij} = h_{ab,si} + j \left[\frac{h_{ab,si+1} - h_{ab,si}}{18} \right] \quad (i=0,1,...,5; j=0,1,...,7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j \left[\frac{h_{ab,si+1} - h_{ab,si}}{60} \right] \quad (i=0,1,...,5; j=0,1,...,59) \quad (3)$$
- For the 48 or 360 elementary hue angles h_{ab} of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:
$$h_{48ab,eij} = h_{ab,ei} + j \left[\frac{h_{ab,ei+1} - h_{ab,ei}}{18} \right] \quad (i=0,1,...,5; j=0,1,...,7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j \left[\frac{h_{ab,ei+1} - h_{ab,ei}}{60} \right] \quad (i=0,1,...,5; j=0,1,...,59) \quad (5)$$
- For any elementary hue angle h_{ab} there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
- The values rgb^*_e produce the output of the device-independent elementary hues

Output: Laser printer output; separation cmyk6*, D65, page 7/38

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

TUB-test chart QE29; hue code: $H^*_d=R75Y_d$
48 step hue circles; $rgb-LabCh$ *tables

Data of Maximum color M in colorimetric system Laser printer output; separation cmykn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM; $h_{ab,d}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;										Six hue angles of the elementary colours RYGBCM; $h_{ab,*}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6									
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$	$h_{ab,*}$
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	1.0	0.0	0.0	0.158	47.7	56.3	32.5	65.0	30
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	1.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	1.0	0.25	0.0	0.158	0.0	53.6	51.1	51.1	72.2
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	1.0	0.367	0.0	0.0	0.0	57.8	42.8	54.8	69.6
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	1.0	0.5	0.0	0.332	0.0	62.5	34.0	58.9	68.0
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	1.0	0.617	0.0	0.0	0.0	66.6	26.5	62.5	67.9
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	1.0	0.75	0.0	0.521	0.0	71.3	18.0	67.1	69.5
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	1.0	0.867	0.0	0.0	0.0	75.8	10.1	71.6	72.3
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	1.0	1.0	0.0	0.732	0.0	81.8	0.0	76.3	76.3
101.4	97.5	101.0	0.875	1.0	0.0	92.8	-18.1	89.4	91.2	101.4	0.883	1.0	0.0	0.0	0.0	87.8	-9.3	76.2	76.7
103.9	105.0	109.7	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103.9	0.75	1.0	0.0	0.0	0.0	89.2	-22.5	84.4	87.4
115.0	112.5	118.5	0.625	1.0	0.0	79.9	-31.7	67.9	75.0	115.0	0.633	1.0	0.0	0.0	0.0	82.7	-29.4	73.0	78.8
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	0.5	1.0	0.0	0.0	0.0	76.3	-36.2	62.8	72.6
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	0.383	1.0	0.0	0.0	0.0	71.2	-41.5	55.2	69.1
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	0.25	1.0	0.0	0.0	0.0	66.4	-47.8	47.9	67.7
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	0.133	1.0	0.0	0.0	0.0	62.3	-54.6	42.7	69.4
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	0.0	1.0	0.0	0.0	0.0	57.6	-61.3	35.5	70.9
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	0.0	1.0	0.117	53.9	-66.4	23.5	70.6	160	0.0
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	0.0	1.0	0.25	53.8	-63.1	12.8	64.4	168	0.0
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	0.0	1.0	0.367	54.7	-57.2	0.0	57.3	179	0.0
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189	0.0
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	0.0	1.0	0.617	55.3	-44.6	-19.3	48.8	203	0.0
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	0.0	1.0	0.75	55.2	-39.4	-27.0	47.9	214	0.0
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	0.0	1.0	0.867	54.5	-36.9	-32.6	49.4	221	0.0
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	0.0	1.0	1.0	53.1	-29.9	-43.0	52.5	235	0.0
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	0.0	0.883	1.0	53.1	-28.0	-44.5	52.8	237	0.0
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241.3	0.0	0.75	1.0	52.9	-25.8	-47.5	54.2	241	0.0
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	0.0	0.633	1.0	50.7	-21.1	-49.3	53.8	246	0.0
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	0.0	0.5	1.0	46.2	-13.2	-49.3	51.2	254	0.0
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	0.0	0.383	1.0	41.7	-6.7	-49.2	49.8	262	0.0
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	0.0	0.25	1.0	36.9	2.2	-48.5	48.6	272	0.0
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	0.0	0.133	1.0	35.2	8.9	-46.5	47.4	280	0.0
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	0.0	0.0	1.0	32.6	16.9	-44.5	47.7	290	0.0
299.2	277.5	278.8	0.0	0.125	0.0	31.6	23.6	-42.2	48.4	299.2	0.0	0.117	0.0	31.7	23.2	-42.3	48.4	298	0.0
307.8	285.0	285.9	0.0	0.25	0.0	31.0	30.5	-39.3	49.8	307.8	0.0	0.25	0.0	31.0	30.6	-39.3	49.9	307	0.0
317.5	292.5	293.0	0.0	0.375	0.0	34.2	38.2	-35.0	51.8	317.5	0.0	0.367	0.0	34.0	37.8	-35.3	51.7	316	0.0
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	0.5	0.0	1.0	37.2	43.2	-30.8	53.1	324	0.0
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	0.617	0.0	1.0	39.0	48.1	-27.4	55.4	330	0.0
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	0.75	0.0	1.0	41.9	55.2	-21.5	59.2	338	0.0
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	0.867	0.0	1.0	45.4	59.8	-17.5	62.4	343	0.0
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	1.0	0.0	1.0	48.2	65.4	-12.7	66.7	348	0.0
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	1.0	0.0	0.883	49.5	66.1	-10.8	67.0	350	0.0
354.2	345.0	342.8	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	1.0	0.0	0.75	49.4	64.6	-6.5	64.9	354	0.0
361.9	352.5	349.9	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	1.0	0.0	0.633	48.1	62.0	1.6	62.0	361	1.0
370.0	360.0	357.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	1.0	0.0	0.5	47.8	59.0	10.4	59.9	370	1.0
378.9	367.5	364.1	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	1.0	0.0	0.383	47.4	56.8	19.5	60.1	378	1.0
386.2	375.0	371.2	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	1.0	0.0	0.25	47.6	55.9	27.6	62.4	386	1.0
393.4	382.5	378.3	1.0	0.0	0.125	47.6	56.3	34.2	65.9	393.4	1.0	0.0	0.133	47.7	56.4	33.8	65.7	390	1.0
393.4	390.0	385.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	1.0	0.0	0.0	47.6	57.2	37.9	68.6	393	1.0
400.0	400.0	400.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours RYGBM; $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$										Output: Laser printer output; separation cmyk6*, D65, page 9/35											
LAB* ΔE_{64M} (x=LabCh)										LAB* ΔE_{64M} (x=LabCh)											
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*	rgb^*		
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	33.4	1.0	0.0	0.0	263.4	47.6	56.1	26.7	62.1	25	
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	42.1	1.0	0.0	0.0	0.012	47.6	57.2	37.5	68.4	33	
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	52.8	1.0	0.125	0.0	52.0	54.3	49.2	73.3	42		
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	63.7	1.0	0.25	0.0	56.6	45.2	53.9	70.3	49		
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	73.8	1.0	0.375	0.0	61.8	35.2	58.4	68.2	58		
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	80.7	1.0	0.5	0.0	66.4	26.9	62.3	67.9	66		
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	91.5	1.0	0.625	0.0	71.6	17.3	67.5	69.7	75		
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	96.8	1.0	0.75	0.0	76.9	8.4	72.5	73.0	83		
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	100.5	1.0	0.875	0.0	83.7	-3.0	76.8	76.9	92		
101.4	97.5	101.0	1.0	0.875	1.0	92.8	-18.1	89.4	91.2	101.4	101.4	1.0	1.0	0.0	0.996	0.0	91.5	-15.5	84.4	85.8	100
103.9	105.0	109.7	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103.9	103.9	0.75	1.0	0.0	84.7	-27.5	76.7	81.5	109		
115.0	112.5	118.5	0.625	1.0	0.0	79.9	-31.7	67.9	75.0	115.0	115.0	0.625	1.0	0.0	77.8	-34.4	65.0	73.6	117		
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	127.3	0.5	1.0	0.0	71.0	-41.6	54.9	68.9	127		
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	134.7	0.375	1.0	0.0	66.2	-48.2	47.6	67.8	135		
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	144.7	0.25	1.0	0.0	60.6	-57.1	40.5	70.1	144		
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	151.0	0.125	1.0	0.0	55.9	-64.4	33.0	72.5	152		
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	155.5	0.0	1.0	0.0	53.8	-65.9	21.1	69.3	162		
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	160.8	0.0	1.0	0.125	53.8	-63.0	12.7	64.4	168		
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	168.5	0.0	1.0	0.25	53.7	-55.6	-2.1	55.7	172		
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	179.9	0.0	1.0	0.375	54.7	-51.5	-8.6	52.3	189		
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	189.8	0.0	1.0	0.5	55.0	-44.7	-19.2	48.8	203		
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	204.4	0.0	1.0	0.625	55.3	-41.8	-23.8	48.2	209		
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	214.4	0.0	1.0	0.75	55.2	-38.6	-29.0	48.4	216		
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	221.9	0.0	1.0	0.875	54.3	-36.1	-34.1	49.8	223		
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	235.1	0.0	1.0	1.0	53.1	-28.6	-44.1	52.7	237		
237.9	215.0	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	237.9	0.0	0.875	1.0	51.7	-23.3	-48.5	54.0	244		
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241.3	241.3	0.0	0.75	1.0	50.6	-17.2	-49.5	52.6	250		
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	247.2	0.0	0.625	1.0	48.6	-10.4	-49.4	50.6	258		
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	254.9	0.0	0.5	1.0	46.1	-4.7	-49.2	49.5	264		
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	262.6	0.0	0.375	1.0	40.6	37.3	1.5	-48.6	48.7	271	
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	272.6	0.0	0.25	1.0	35.7	7.0	-47.2	47.8	278		
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	281.4	0.0	0.125	1.0	33.9	13.1	-45.6	47.5	285		
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	290.8	0.0	0.0	1.0	32.4	18.4	-44.1	47.9	292		
299.2	277.5	278.8	0.125	0.0	1.0	31.6	23.6	-42.2	48.4	299.2	299.2	0.125	0.0	1.0	31.5	24.4	-41.9	48.6	300		
307.8	285.0	285.9	0.25	0.0	1.0	31.0	30.5	-39.3	49.8	307.8	307.8	0.25	0.0	1.0	31.1	29.8	-39.7	49.7	306		
317.5	292.5	293.0	0.375	0.0	1.0	34.2	38.2	-35.0	51.8	317.5	317.5	0.375	0.0	1.0	33.2	35.8	-36.5	51.2	314		
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	324.4	0.5	0.0	1.0	35.8	40.8	-32.9	52.5	321		
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	330.6	0.625	0.0	1.0	38.5	46.8	-28.4	54.8	328		
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	338.7	0.75	0.0	1.0	40.7	52.3	-24.0	57.6	335		
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	343.9	0.875	0.0	1.0	44.9	59.1	-18.2	61.9	342		
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	348.9	1.0	0.0	1.0	0.964	48.6	-12.1	66.8	349		
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	350.7	1.0	0.0	0.875	49.5	65.6	-9.0	66.2	352		
354.2	345.0	342.8	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	354.2	1.0	0.0	0.75	49.3	62.7	-0.1	62.7	359		
361.9	352.5	349.9	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	361.9	1.0	0.0	0.625	48.0	59.5	9.2	60.2	368		
370.0	360.0	357.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	370.0	1.0	0.0	0.5	47.8	57.6	17.1	60.0	376		
378.9	367.5	364.1	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	378.9	1.0	0.0	0.375	47.4	56.1	26.7	62.1	385		
386.2	375.0	371.2	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	386.2	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2		
391.3	382.5	378.3	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3	391.3	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3		
393.4	390.0	385.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4		

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBCM; $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$
 $h_{ab,d}$ $h_{ab,s}$ $h_{ab,e}$ $rgb^*_{dx361MI}$ $rgb^*_{ds361MI}$ $rgb^*_{ds361MI}$ $LAB^*_{dx361MI}$ $LAB^*_{ds361MI}$ $LAB^*_{ds361MI}$ $rgb^*_{ds361MI}$ $rgb^*_{ds361MI}$ $rgb^*_{ds361MI}$

Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$											rgb^*_{ds}		rgb^*_{ds}	
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{d361M}	LAB^*_{d361MI}	LAB^*_{d361MI}	C_d	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$	rgb^*_{d361MI}	$rgb^*_{ds361MI}$	$rgb^*_{ds361MI}$	$rgb^*_{ds361MI}$
216	235	210	0.0	1.0	53.1	-30.0	-43.1	52.5	235	235	0.0	1.0	0.694	55.3
235	211	217	0.0	0.983	1.0	53.1	-29.7	-43.3	52.5	235	0.0	1.0	0.707	55.3
235	212	218	0.0	0.966	1.0	53.1	-29.4	-43.5	52.5	235	0.0	1.0	0.719	55.3
236	213	219	0.0	0.95	1.0	53.1	-29.2	-43.7	52.6	236	0.0	1.0	0.732	55.3
236	214	220	0.0	0.933	1.0	53.1	-28.9	-43.9	52.6	236	0.0	1.0	0.744	55.2
237	215	221	0.0	0.916	1.0	53.1	-28.6	-44.2	52.6	237	0.0	1.0	0.759	55.2
237	216	222	0.0	0.9	1.0	53.1	-28.3	-44.4	52.7	237	0.0	1.0	0.775	55.1
237	217	223	0.0	0.883	1.0	53.1	-28.1	-44.6	52.7	237	0.0	1.0	0.792	55.0
238	218	224	0.0	0.866	1.0	53.0	-27.8	-44.9	52.8	238	0.0	1.0	0.809	54.9
238	219	225	0.0	0.85	1.0	53.0	-27.5	-45.3	53.0	238	0.0	1.0	0.825	54.8
239	220	226	0.0	0.833	1.0	53.0	-27.3	-45.6	53.2	239	0.0	1.0	0.842	54.7
239	221	227	0.0	0.816	1.0	53.0	-27.0	-46.0	53.4	239	0.0	1.0	0.859	54.6
240	222	227	0.0	0.8	1.0	52.9	-26.7	-46.4	53.6	240	0.0	1.0	0.875	54.5
240	223	228	0.0	0.783	1.0	52.9	-26.5	-46.8	53.8	240	0.0	1.0	0.885	54.4
240	224	229	0.0	0.766	1.0	52.9	-26.2	-47.2	53.9	240	0.0	1.0	0.894	54.3
241	225	230	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241	0.0	1.0	0.904	54.2
242	226	231	0.0	0.733	1.0	52.6	-25.2	-47.8	54.1	242	0.0	1.0	0.913	54.1
242	227	232	0.0	0.716	1.0	52.2	-24.5	-48.1	54.0	242	0.0	1.0	0.923	54.0
243	228	233	0.0	0.7	1.0	51.9	-23.9	-48.4	54.0	243	0.0	1.0	0.932	53.9
244	229	234	0.0	0.683	1.0	51.6	-23.2	-48.6	53.9	244	0.0	1.0	0.942	53.8
245	230	235	0.0	0.666	1.0	51.3	-22.5	-48.9	53.8	245	0.0	1.0	0.951	53.7
246	231	236	0.0	0.65	1.0	51.0	-21.8	-49.1	53.8	246	0.0	1.0	0.961	53.6
246	232	237	0.0	0.633	1.0	50.7	-21.1	-49.4	53.7	246	0.0	1.0	0.97	53.5
247	233	237	0.0	0.616	1.0	50.2	-20.2	-49.5	53.5	247	0.0	1.0	0.98	53.4
248	234	238	0.0	0.6	1.0	49.7	-19.2	-49.6	53.2	248	0.0	1.0	0.989	53.2
249	235	239	0.0	0.583	1.0	49.1	-18.2	-49.6	52.8	249	0.0	1.0	0.999	53.1
250	236	240	0.0	0.566	1.0	48.5	-17.2	-49.6	52.5	250	0.0	1.0	0.963	1.0
251	237	241	0.0	0.55	1.0	47.9	-16.2	-49.5	52.2	251	0.0	1.0	0.918	1.0
252	238	242	0.0	0.533	1.0	47.3	-15.2	-49.5	51.8	252	0.0	1.0	0.874	1.0
253	239	243	0.0	0.516	1.0	46.7	-14.3	-49.4	51.5	253	0.0	1.0	0.838	1.0
254	240	244	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254	0.0	1.0	0.801	1.0
255	241	245	0.0	0.483	1.0	45.5	-12.3	-49.4	50.9	255	0.0	1.0	0.764	1.0
256	242	246	0.0	0.466	1.0	44.8	-11.4	-49.4	50.7	256	0.0	1.0	0.737	1.0
258	243	247	0.0	0.45	1.0	44.2	-10.5	-49.4	50.5	258	0.0	1.0	0.716	1.0
259	244	248	0.0	0.433	1.0	43.6	-9.5	-49.4	50.3	259	0.0	1.0	0.694	1.0
260	245	248	0.0	0.416	1.0	42.9	-8.6	-49.4	50.1	260	0.0	1.0	0.673	1.0
261	246	249	0.0	0.4	1.0	42.3	-7.7	-49.3	49.9	261	0.0	1.0	0.651	1.0
262	247	250	0.0	0.383	1.0	41.7	-6.8	-49.3	49.7	262	0.0	1.0	0.63	1.0
263	248	251	0.0	0.366	1.0	41.1	-5.7	-49.2	49.6	263	0.0	1.0	0.612	1.0
264	249	252	0.0	0.35	1.0	40.5	-4.6	-49.2	49.4	264	0.0	1.0	0.596	1.0
265	250	253	0.0	0.333	1.0	39.9	-3.4	-49.2	49.3	265	0.0	1.0	0.58	1.0
267	251	254	0.0	0.316	1.0	39.3	-2.3	-49.1	49.1	267	0.0	1.0	0.564	1.0
268	252	255	0.0	0.3	1.0	38.7	-1.1	-49.0	49.0	268	0.0	1.0	0.547	1.0
269	253	256	0.0	0.283	1.0	38.1	0.0	-48.9	48.9	269	0.0	1.0	0.531	1.0
271	254	257	0.0	0.266	1.0	37.4	1.1	-48.7	48.7	271	0.0	1.0	0.515	1.0
272	255	258	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272	0.0	1.0	0.499	1.0

Output: Laser printer output; separation cmyk6*, D65, page 14/83

input: *rgb/cmyk* -> *rgba*
output: transfer to *cmykd*

TUB-test chart QE29; hue code: H*_d=R75Y_d
48 step hue circles; *rgb-LabCh**tables

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 15/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM; $h_{ab,d}$ = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;									
Six hue angles of the device colours RYGBCM; $h_{ab,d}$ = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBCM; $h_{ab,e}$ = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6									
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{ds361M}	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	$LAB^*_{ds361Mi}$
272	255	258	0.0	0.25	1.0	0.0	0.449	1.0	0.0
273	256	258	0.0	0.233	1.0	0.0	0.435	1.0	0.0
274	257	259	0.0	0.216	1.0	0.0	0.416	1.0	0.0
276	258	260	0.0	0.2	1.0	0.0	0.405	1.0	0.0
277	259	261	0.0	0.183	1.0	0.0	0.39	1.0	0.0
278	260	262	0.0	0.166	1.0	0.0	0.376	1.0	0.0
279	261	263	0.0	0.15	1.0	0.0	0.364	1.0	0.0
280	262	264	0.0	0.133	1.0	0.0	0.353	1.0	0.0
282	263	265	0.0	0.116	1.0	0.0	0.341	1.0	0.0
283	264	266	0.0	0.083	1.0	0.0	0.33	1.0	0.0
284	265	267	0.0	0.066	1.0	0.0	0.318	1.0	0.0
285	266	268	0.0	0.049	1.0	0.0	0.307	1.0	0.0
287	267	269	0.0	0.033	1.0	0.0	0.296	1.0	0.0
288	268	269	0.0	0.016	1.0	0.0	0.284	1.0	0.0
289	269	270	0.0	0.0	1.0	0.0	0.273	1.0	0.0
290	270	271	0.0	0.0	1.0	0.0	0.261	1.0	0.0
291	271	272	0.016	0.0	1.0	0.0	0.249	1.0	0.0
293	272	273	0.033	0.0	1.0	0.0	0.236	1.0	0.0
294	273	274	0.05	0.0	1.0	0.0	0.222	1.0	0.0
295	274	275	0.066	0.0	1.0	0.0	0.209	1.0	0.0
296	275	276	0.083	0.0	1.0	0.0	0.196	1.0	0.0
297	276	277	0.1	0.0	1.0	0.0	0.182	1.0	0.0
298	277	278	0.116	0.0	1.0	0.0	0.169	1.0	0.0
299	278	279	0.133	0.0	1.0	0.0	0.155	1.0	0.0
300	279	280	0.15	0.0	1.0	0.0	0.142	1.0	0.0
302	280	281	0.166	0.0	1.0	0.0	0.129	1.0	0.0
303	281	282	0.183	0.0	1.0	0.0	0.116	1.0	0.0
304	282	283	0.2	0.0	1.0	0.0	0.103	1.0	0.0
305	283	284	0.216	0.0	1.0	0.0	0.09	1.0	0.0
306	284	285	0.233	0.0	1.0	0.0	0.078	1.0	0.0
307	285	286	0.25	0.0	1.0	0.0	0.065	1.0	0.0
309	286	287	0.266	0.0	1.0	0.0	0.052	1.0	0.0
310	287	288	0.283	0.0	1.0	0.0	0.04	1.0	0.0
311	288	289	0.3	0.0	1.0	0.0	0.027	1.0	0.0
312	289	290	0.316	0.0	1.0	0.0	0.014	1.0	0.0
314	290	291	0.333	0.0	1.0	0.0	0.001	1.0	0.0
315	291	292	0.35	0.0	1.0	0.0	0.0	1.0	0.0
316	292	293	0.366	0.0	1.0	0.0	0.026	0.0	1.0
317	293	294	0.383	0.0	1.0	0.0	0.041	0.0	1.0
318	294	295	0.4	0.0	1.0	0.0	0.055	0.0	1.0
319	295	296	0.416	0.0	1.0	0.0	0.069	0.0	1.0
320	296	297	0.433	0.0	1.0	0.0	0.083	0.0	1.0
321	297	298	0.45	0.0	1.0	0.0	0.097	0.0	1.0
322	298	299	0.466	0.0	1.0	0.0	0.111	0.0	1.0
323	299	300	0.483	0.0	1.0	0.0	0.125	0.0	1.0
324	300	300	0.5	0.0	1.0	0.0	0.139	0.0	1.0

Output: Laser printer output; separation cmyk6*, D65, page 15/83
input: $rgb/cmyk \rightarrow rgb$
output: transfer to $cmyk_d$
TUB-test chart QE29; hue code: $H^*_d=R75Y_d$
48 step hue circles; $rgb-LabCh$ *tables

technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmatrik/QE29/QE29LONP.PDF> /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 16/33

input: *rgb/cmyk* → *rgb*
output: transfer to *cmyk*

Output: Laser printer output; separation cmyn6*, D65, page 16/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmy66*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM ₆ ; h _{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBCM _d ; h _{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBCM _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*	rgb*	LAB*	LAB*	LAB*	LAB*	LAB*
d361M	d361M	d361M	d361M	d361M	d361M	d361M	d361M	d361M	d361M
324	300	300	0.5	0.0	1.0	37.2	43.1	-30.8	53.0
325	301	301	0.516	0.0	1.0	37.4	43.8	-30.4	53.4
326	302	302	0.533	0.0	1.0	37.7	44.5	-29.9	53.7
326	303	303	0.55	0.0	1.0	37.9	45.3	-29.5	54.0
327	304	303	0.566	0.0	1.0	38.2	46.0	-29.0	54.4
328	305	304	0.583	0.0	1.0	38.4	46.7	-28.5	54.7
329	306	305	0.6	0.0	1.0	38.7	47.4	-28.0	55.1
330	307	306	0.616	0.0	1.0	38.9	48.1	-27.5	55.4
331	308	307	0.633	0.0	1.0	39.2	48.9	-26.9	55.8
332	309	308	0.65	0.0	1.0	39.6	49.8	-26.2	56.3
333	310	309	0.666	0.0	1.0	40.0	50.7	-25.4	56.8
334	311	310	0.683	0.0	1.0	40.4	51.6	-24.7	57.2
335	312	311	0.7	0.0	1.0	40.7	52.5	-23.9	57.7
336	313	312	0.716	0.0	1.0	41.1	53.4	-23.1	58.2
337	314	313	0.733	0.0	1.0	41.5	54.3	-22.3	58.7
338	315	314	0.75	0.0	1.0	41.8	55.1	-21.4	59.1
339	316	315	0.766	0.0	1.0	42.4	55.8	-20.9	59.6
340	317	316	0.783	0.0	1.0	42.9	56.5	-20.4	60.1
341	318	317	0.8	0.0	1.0	43.4	57.2	-19.8	60.5
341	319	318	0.816	0.0	1.0	43.9	57.8	-19.3	61.0
342	320	319	0.833	0.0	1.0	44.4	58.5	-18.7	61.4
342	321	320	0.85	0.0	1.0	44.9	59.1	-18.2	61.9
343	322	321	0.866	0.0	1.0	45.4	59.8	-17.6	62.3
344	323	321	0.883	0.0	1.0	45.8	60.5	-17.0	62.8
344	324	322	0.9	0.0	1.0	46.1	61.2	-16.4	63.4
345	325	323	0.916	0.0	1.0	46.5	61.9	-15.9	63.9
346	326	324	0.933	0.0	1.0	46.8	62.6	-15.3	64.5
346	327	325	0.95	0.0	1.0	47.1	63.3	-14.6	65.0
347	328	326	0.966	0.0	1.0	47.5	64.0	-14.0	65.5
348	329	327	0.983	0.0	1.0	47.8	64.7	-13.4	66.1
348	330	328	1.0	0.0	1.0	48.1	65.4	-12.7	66.6
349	331	329	1.0	0.0	0.983	48.3	65.5	-12.5	66.7
349	332	330	1.0	0.0	0.966	48.5	65.6	-12.2	66.7
349	333	331	1.0	0.0	0.95	48.7	65.7	-11.9	66.8
349	334	332	1.0	0.0	0.933	48.9	65.8	-11.7	66.8
350	335	333	1.0	0.0	0.916	49.0	65.9	-11.4	66.9
350	336	334	1.0	0.0	0.9	49.2	66.0	-11.1	66.9
350	337	335	1.0	0.0	0.883	49.4	66.1	-10.9	67.0
350	338	336	1.0	0.0	0.866	49.5	66.0	-10.4	66.9
351	339	337	1.0	0.0	0.85	49.4	65.8	-9.9	66.6
351	340	338	1.0	0.0	0.833	49.4	65.6	-9.3	66.3

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 17/33

see similar files: <http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGCBM _e ; 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} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; 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* _{ab,e}	rgb* _{ab,d}	LAB* _{ab,e}	LAB* _{ab,d}	rgb* _{ab,e}	rgb* _{ab,d}	LAB* _{ab,e}	LAB* _{ab,d}	rgb* _{ab,e}	rgb* _{ab,d}	LAB* _{ab,e}	LAB* _{ab,d}	rgb* _{ab,e}	rgb* _{ab,d}	LAB* _{ab,e}	LAB* _{ab,d}																	
345	345	342	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354	0.902	0.0	1.0	46.2	61.3	-16.3	63.5	345																	
355	345	342	1.0	0.0	0.733	49.1	64.2	-5.3	64.4	355	0.926	0.0	1.0	46.7	62.4	-15.5	64.3	346																	
355	346	343	1.0	0.0	0.733	49.1	64.2	-5.3	64.4	355	0.926	0.0	1.0	46.7	62.4	-15.5	64.3	346																	
356	347	344	1.0	0.0	0.716	48.9	63.9	-4.1	64.0	356	0.951	0.0	1.0	47.2	63.4	-14.5	65.1	347																	
357	348	345	1.0	0.0	0.7	48.7	63.5	-2.9	63.6	357	0.976	0.0	1.0	47.7	64.5	-13.6	65.9	348																	
358	349	346	1.0	0.0	0.683	48.6	63.2	-1.8	63.2	358	1.0	0.0	0.996	48.2	65.4	-12.6	66.7	349																	
359	350	347	1.0	0.0	0.666	48.4	62.8	-0.6	62.8	359	1.0	0.0	0.927	49.0	65.9	-11.5	66.9	350																	
360	351	348	1.0	0.0	0.65	48.2	62.4	0.4	62.4	360	1.0	0.0	0.866	49.5	66.1	-10.4	66.9	351																	
361	352	349	1.0	0.0	0.633	48.0	62.0	1.5	62.0	361	1.0	0.0	0.83	49.5	65.6	-9.1	66.3	352																	
362	353	350	1.0	0.0	0.616	47.9	61.6	2.7	61.7	362	1.0	0.0	0.794	49.4	65.2	-7.9	65.6	353																	
363	354	351	1.0	0.0	0.6	47.9	61.3	3.8	61.4	363	1.0	0.0	0.757	49.3	64.7	-6.7	65.0	354																	
364	355	352	1.0	0.0	0.583	47.9	60.9	4.9	61.1	364	1.0	0.0	0.737	49.2	64.3	-5.5	64.6	355																	
365	356	353	1.0	0.0	0.566	47.9	60.6	6.0	60.9	365	1.0	0.0	0.721	49.0	64.0	-4.4	64.2	356																	
366	357	354	1.0	0.0	0.55	47.8	60.2	7.1	60.6	366	1.0	0.0	0.705	48.9	63.7	-3.2	63.8	357																	
367	358	355	1.0	0.0	0.533	47.8	59.8	8.2	60.4	367	1.0	0.0	0.689	48.7	63.4	-2.1	63.4	358																	
368	359	356	1.0	0.0	0.516	47.8	59.4	9.3	60.1	368	1.0	0.0	0.673	48.5	63.0	-1.0	63.0	359																	
370	360	352	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370	1.0	0.0	0.657	48.3	62.6	0.0	62.6	360																	
371	361	353	1.0	0.0	0.483	47.7	58.7	11.6	59.9	371	1.0	0.0	0.641	48.2	62.2	1.1	62.2	361																	
372	362	354	1.0	0.0	0.466	47.7	58.5	12.8	59.9	372	1.0	0.0	0.625	48.0	61.8	2.2	61.8	362																	
373	363	355	1.0	0.0	0.45	47.6	58.3	14.0	59.9	373	1.0	0.0	0.609	48.0	61.5	3.2	61.6	363																	
374	364	356	1.0	0.0	0.433	47.5	58.0	15.2	60.0	374	1.0	0.0	0.594	48.0	61.2	4.3	61.4	364																	
375	365	357	1.0	0.0	0.416	47.5	57.7	16.5	60.0	375	1.0	0.0	0.578	47.9	60.9	5.3	61.1	365																	
377	366	358	1.0	0.0	0.4	47.4	57.3	17.7	60.0	377	1.0	0.0	0.562	47.9	60.5	6.4	60.9	366																	
378	367	359	1.0	0.0	0.383	47.4	57.0	18.9	60.0	378	1.0	0.0	0.547	47.9	60.2	7.4	60.6	367																	
379	368	360	1.0	0.0	0.366	47.4	56.8	20.0	60.2	379	1.0	0.0	0.531	47.9	59.8	8.4	60.4	368																	
380	369	362	1.0	0.0	0.35	47.4	56.7	21.1	60.5	380	1.0	0.0	0.516	47.8	59.4	9.4	60.2	369																	
381	370	363	1.0	0.0	0.333	47.4	56.6	22.1	60.8	381	1.0	0.0	0.5	47.8	59.0	10.4	59.9	370																	
382	371	364	1.0	0.0	0.316	47.4	56.5	23.2	61.1	382	1.0	0.0	0.486	47.8	58.8	11.4	59.9	371																	
383	372	365	1.0	0.0	0.3	47.5	56.4	24.3	61.4	383	1.0	0.0	0.472	47.7	58.6	12.5	60.0	372																	
384	373	366	1.0	0.0	0.283	47.5	56.2	25.4	61.7	384	1.0	0.0	0.458	47.7	58.4	13.5	60.0	373																	
385	374	367	1.0	0.0	0.266	47.5	56.1	26.5	62.0	385	1.0	0.0	0.444	47.6	58.2	14.5	60.0	374																	
386	375	368	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386	1.0	0.0	0.43	47.6	58.0	15.5	60.0	375																	
386	376	369	1.0	0.0	0.233	47.5	56.0	28.4	62.8	386	1.0	0.0	0.416	47.5	57.7	16.5	60.0	376																	
387	377	370	1.0	0.0	0.216	47.6	56.1	29.3	63.3	387	1.0	0.0	0.402	47.5	57.4	17.6	60.1	377																	
388	378	372	1.0	0.0	0.2	47.6	56.1	30.2	63.8	388	1.0	0.0	0.388	47.5	57.1	18.6	60.1	378																	
388	379	373	1.0	0.0	0.183	47.6	56.2	31.1	64.2	388	1.0	0.0	0.374	47.4	56.8	19.6	60.1	379																	
389	380	374	1.0	0.0	0.166	47.6	56.3	32.0	64.7	389	1.0	0.0	0.357	47.4	56.8	20.7	60.4	380																	
390	381	375	1.0	0.0	0.15	47.6	56.3	32.9	65.2	390	1.0	0.0	0.34	47.5	56.7	21.8	60.7	381																	
390	382	376	1.0	0.0	0.133	47.6	56.3	33.8	65.7	390	1.0	0.0	0.323	47.5	56.6	22.9	61.0	382																	
391	383	377	1.0	0.0	0.116	47.6	56.4	34.5	66.1	391	1.0	0.0	0.306	47.5	56.5	24.0	61.4	383																	
391	384	378	1.0	0.0	0.1	47.6	56.5	34.9	66.5	391	1.0	0.0	0.289	47.5	56.3	25.1	61.7	384																	
392	385	379	1.0	0.0	0.083	47.6	56.6	35.4	66.8	392	1.0	0.0	0.272	47.6	56.2	26.2	62.0	385																	
392	386	381	1.0	0.0	0.066	47.6	56.7	35.9	67.2	392	1.0	0.0	0.255	47.6	56.0	27.3	62.3	386																	
392	387	382	1.0	0.0	0.049	47.6	56.9	36.4	67.5	392	1.0	0.0	0.232	47.6	56.0	28.5	62.9	387																	
392	388	383	1.0	0.0	0.033	47.6	57.0	36.8	67.9	392	1.0	0.0	0.207	47.6	56.2	29.9	63.6	388																	
393	389	384	1.0	0.0	0.016	47.6	57.1	37.3	68.2	393	1.0	0.0	0.182	47.6	56.3	31.2	64.3	389																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393	1.0	0.0	0.158	47.7	56.3	32.5	65.0	390																	
393	390	385	1.0	0.0																															

1-0031630-L0 QE290-70 LAB* h_{ab} , YN=0%, XY Zmw=3.9, 4.1, 84.7, 89.6, 93.9, LAB* m_w =23.9, 0.0, 0.0, 95.8, 0.0, 0.0
input: $rgb/cmyk \rightarrow rgb$
output: transfer to $cmyk_d$

TUB-test chart QE29; hue code: H*_d=R75Y_d
48 step hue circles; $rgb-LabCh$ *tables

Output: Laser printer output; separation cmyk6*, D65, page 17/83

nf	HfC*Fd	rgb_Fd	icL_Fd	hsL_Fd	LabCh*Fd	rgb*Fd	LabCh*Fd	DF*Fd	hsM_d	rgb*Md	LabCh*Md	
0/648	R00Y_100_100d	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	0.0	389	33.4
1/657	R13Y_100_100d	1.0	0.125	0.0	51.6	54.5	48.4	72.9	41.6	1.0	0.0	47.5
2/666	R25Y_100_100d	1.0	0.25	0.0	57.4	43.5	54.5	69.7	51.4	1.0	0.116	51.6
3/675	R38Y_100_100d	1.0	0.375	0.0	64.2	30.6	60.1	67.5	63.0	1.0	0.233	57.4
4/684	R50Y_100_100d	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	1.0	0.366	64.2
5/693	R63Y_100_100d	1.0	0.625	0.0	75.4	10.6	71.2	72.0	81.5	1.0	0.5	70.5
6/702	R75Y_100_100d	1.0	0.75	0.0	83.8	-2.9	76.8	76.9	92.0	1.0	0.766	75.4
7/711	R88Y_100_100d	1.0	0.875	0.0	87.5	-9.4	76.3	76.9	97.2	1.0	0.883	83.8
8/720	Y00C_100_100d	1.0	0.0	0.5	91.5	-15.8	84.6	86.1	100.5	1.0	0.0	91.5
9/639	Y13C_100_100d	0.875	1.0	0.0	92.7	-18.0	89.1	90.9	101.4	0.875	1.0	92.7
10/558	Y25C_100_100d	0.75	1.0	0.0	90.4	-20.9	86.5	89.0	103.6	0.75	1.0	90.4
11/477	Y38C_100_100d	0.625	1.0	0.0	80.5	-31.2	69.2	75.9	114.2	0.625	1.0	80.5
12/396	Y50C_100_100d	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	0.5	1.0	70.9
13/315	Y63C_100_100d	0.375	1.0	0.0	66.1	-48.2	47.5	67.7	135.3	0.375	1.0	66.1
14/234	Y75C_100_100d	0.25	1.0	0.0	60.1	-57.9	39.6	70.2	145.5	0.25	1.0	60.1
15/153	Y88C_100_100d	0.125	1.0	0.0	56.8	-62.5	34.1	71.3	151.3	0.125	1.0	56.8
16/72	G00C_100_100d	0.0	1.0	0.5	54.3	-67.6	30.8	74.3	155.5	0.0	1.0	54.3
17/73	G13C_100_100d	0.0	1.0	0.5	53.8	-66.5	23.5	70.5	160.5	0.0	1.0	53.8
18/74	G25C_100_100d	0.0	1.0	0.5	53.7	-63.6	14.1	65.2	167.4	0.0	1.0	53.7
19/75	G38C_100_100d	0.0	1.0	0.5	54.7	-57.3	0.8	57.3	179.1	0.0	1.0	54.7
20/76	G50C_100_100d	0.0	1.0	0.5	55.0	-43.8	-6.9	52.2	189.8	0.0	1.0	55.0
21/77	G63C_100_100d	0.0	1.0	0.5	55.3	-34.8	-20.9	48.4	205.1	0.0	1.0	55.3
22/78	G75C_100_100d	0.0	1.0	0.5	55.1	-27.9	-35.2	52.2	214.4	0.0	1.0	55.1
23/79	G88C_100_100d	0.0	1.0	0.5	54.3	-36.4	-33.7	49.6	222.8	0.0	1.0	54.3
24/80	C00B_100_100d	0.0	1.0	0.5	53.1	-30.0	-43.1	52.5	235.1	0.0	1.0	53.1
25/81	C13B_100_100d	0.0	1.0	0.5	53.1	-28.1	-44.6	52.7	237.7	0.0	1.0	53.1
26/62	C25B_100_100d	0.0	1.0	0.5	52.9	-26.2	-47.2	53.9	240.9	0.0	1.0	52.9
27/63	C38B_100_100d	0.0	1.0	0.5	50.7	-21.1	-49.4	53.7	246.8	0.0	1.0	50.7
28/44	C50B_100_100d	0.0	1.0	0.5	46.1	-13.3	-49.4	51.1	254.9	0.0	1.0	46.1
29/35	C63B_100_100d	0.0	1.0	0.5	41.1	-5.7	-49.2	49.6	263.3	0.0	1.0	41.1
30/26	C75B_100_100d	0.0	1.0	0.5	36.9	3.2	-48.3	48.4	273.8	0.0	1.0	36.9
31/17	C88B_100_100d	0.0	1.0	0.5	34.9	9.9	-46.3	47.3	282.0	0.0	1.0	34.9
32/8	B00M_100_100d	0.0	1.0	0.5	32.5	16.9	-44.6	47.7	290.8	0.0	1.0	32.5
33/89	B13M_100_100d	0.125	1.0	0.5	31.6	23.1	-42.4	48.3	298.6	0.0	1.0	31.6
34/170	B25M_100_100d	0.25	1.0	0.5	31.1	29.6	-39.8	49.6	306.6	0.0	1.0	31.1
35/251	B38M_100_100d	0.375	1.0	0.5	34.0	37.7	-30.8	51.7	316.8	0.0	1.0	34.0
36/332	B50M_100_100d	0.5	1.0	0.5	37.2	43.1	-30.8	53.0	324.4	0.0	1.0	37.2
37/413	B63M_100_100d	0.625	1.0	0.5	39.2	48.9	-26.9	55.8	331.1	0.0	1.0	39.2
38/494	B75M_100_100d	0.75	1.0	0.5	42.4	55.8	-20.9	59.6	339.4	0.0	1.0	42.4
39/575	B88M_100_100d	0.875	1.0	0.5	45.8	60.5	-17.0	62.8	344.2	0.0	1.0	45.8
40/656	M00R_100_100d	1.0	0.0	0.5	48.1	65.4	-12.7	66.6	348.9	1.0	0.0	48.1
41/655	M13R_100_100d	1.0	0.0	0.5	48.1	66.1	-10.9	67.0	350.6	1.0	0.0	48.1
42/654	M25R_100_100d	1.0	0.0	0.5	49.3	64.7	-7.1	65.1	353.7	1.0	0.0	49.3
43/653	M38R_100_100d	1.0	0.0	0.5	48.0	62.0	1.5	62.0	360.0	1.0	0.0	48.0
44/652	M50R_100_100d	1.0	0.0	0.5	47.8	58.9	10.4	59.9	368.0	1.0	0.0	47.8
45/651	M63R_100_100d	1.0	0.0	0.5	47.4	56.8	20.0	60.2	374.0	1.0	0.0	47.4
46/650	M75R_100_100d	1.0	0.0	0.5	47.5	55.9	28.4	62.8	377.0	1.0	0.0	47.5
47/649	M88R_100_100d	1.0	0.0	0.5	47.6	56.4	36.1	66.1	381.0	1.0	0.0	47.6
48/648	R00Y_100_100d	1.0	0.0	0.5	47.5	57.2	37.8	68.6	393.4	1.0	0.0	47.5
49/0	NW_000d	0.0	0.0	0.0	33.8	0.0	0.0	0.0	360.0	1.0	1.0	33.8
50/91	NW_013d	0.125	0.0	0.125	32.8	0.0	0.0	0.0	360.0	1.0	1.0	32.8
51/182	NW_025d	0.25	0.0	0.25	30.0	0.0	0.0	0.0	360.0	1.0	1.0	30.0
52/273	NW_038d	0.375	0.0	0.375	27.8	0.0	0.0	0.0	360.0	1.0	1.0	27.8
53/364	NW_050d	0.5	0.0	0.5	25.0	0.0	0.0	0.0	360.0	1.0	1.0	25.0
54/455	NW_063d	0.625	0.0	0.625	22.5	0.0	0.0	0.0	360.0	1.0	1.0	22.5
55/546	NW_075d	0.75	0.0	0.75	20.0	0.0	0.0	0.0	360.0	1.0	1.0	20.0
56/637	NW_088d	0.875	0.0	0.875	17.5	0.0	0.0	0.0	360.0	1.0	1.0	17.5
57/728	NW_100d	1.0	0.0	1.0	15.0	0.0	0.0	0.0	360.0	1.0	1.0	15.0

Mean color difference of this page:

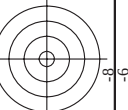
delta E* = 2.9



TUB material: code=rha4ta
cmyn6 (CMYK)

input: *rgb/cmyk* → *rgb*_d
output: transfer to *cmyk*_d

n-j	HIC* _{rd}	rgb* _{rd}	lct* _{rd}	h ₉₀ * _{rd}	rgb* _{rd}	LabCh* _{rd}	LabCh* _{rd}	rgb* _{rd}	LabCh* _{rd}	DE* _{rd}	h ₉₀ * _{rd}	rgb* _{rd}	LabCh* _{rd}	rgb* _{rd}	LabCh* _{rd}															
0	NW_000d	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															
1	B00R_012_012d	0.0	0.125	0.062	270	0.0	0.125	24.9	2.1	-5.5	5.9	290.8	0.0	0.0125	24.3	0.0	-14.1	14.7	285.9	8.8	270	0.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	
2	B00R_025_025d	0.0	0.25	0.125	270	0.0	0.25	26.0	4.2	-11.1	11.9	290.8	0.0	0.0	22.7	3.9	-22.0	22.4	280.2	11.3	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
3	B00R_037_037d	0.0	0.375	0.187	270	0.0	0.375	27.1	6.3	-16.7	17.8	290.8	0.0	0.0375	28.0	6.9	-29.3	30.1	283.3	12.6	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
4	B00R_050_050d	0.0	0.5	0.25	270	0.0	0.5	28.2	8.4	-22.3	23.8	290.8	0.0	0.0	30.3	13.1	-38.9	41.0	288.6	17.3	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
5	B00R_062_062d	0.0	0.625	0.312	270	0.0	0.625	29.2	10.5	-27.8	29.8	290.8	0.0	0.0	30.3	13.1	-38.9	41.0	288.6	17.3	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
6	B00R_075_075d	0.0	0.75	0.437	270	0.0	0.75	30.3	12.7	-33.4	35.7	290.8	0.0	0.0	30.6	18.1	-43.9	47.5	292.4	11.8	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
7	B00R_087_087d	0.0	0.875	0.562	270	0.0	0.875	31.4	14.8	-39.0	41.7	290.8	0.0	0.0	31.4	18.7	-44.2	48.0	292.9	6.5	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
8	B00R_100_100d	0.0	1.0	0.5	270	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	0.0	0.0	32.5	16.9	-44.6	47.7	290.8	0.0	270	0.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8
9	G00B_012_012d	0.0	0.125	0.062	150	0.0	0.125	0.0	0.0	0.0	0.0	155.5	0.0	0.125	0.0	0.0	0.0	0.0	167.0	5.1	149	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	
10	G00B_025_025d	0.0	0.125	0.125	0.062	210	0.0	0.125	0.0	0.0	0.0	155.5	0.0	0.125	0.125	0.0	0.0	0.0	167.0	5.1	149	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	
11	G00B_037_037d	0.0	0.125	0.187	210	0.0	0.125	0.0	0.0	0.0	0.0	155.5	0.0	0.125	0.187	0.0	0.0	0.0	167.0	5.1	149	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	
12	G00B_050_050d	0.0	0.25	0.25	210	0.0	0.25	0.0	0.0	0.0	0.0	155.5	0.0	0.25	0.25	0.0	0.0	0.0	167.0	5.1	149	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	
13	G00B_062_062d	0.0	0.25	0.312	259	0.0	0.25	0.0	0.0	0.0	0.0	155.5	0.0	0.25	0.312	0.0	0.0	0.0	167.0	5.1	149	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	
14	G00B_075_075d	0.0	0.375	0.437	259	0.0	0.375	0.0	0.0	0.0	0.0	155.5	0.0	0.375	0.437															

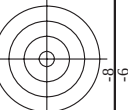


TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* $\rightarrow$ *rgb*
output: transfer to *cmyk*

1	G50D_1	
2	-0032130-F0	

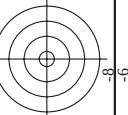
[illegible]



TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* → *rgb*_d
output: transfer to *cmyk*_d

[illegible]



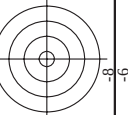
TUB material: code=rha4ta
rmy6 (CMYK)

A target diagram consisting of three concentric circles. A horizontal line and a vertical line intersect at the center, dividing the target into four quadrants. To the right of the target, there are two vertical lines. The first vertical line has a horizontal tick mark at the level of the center, with the number '8' to its left. The second vertical line has a horizontal tick mark at the level of the top of the outermost circle, with the number '5' to its left.

input: *rgb/cmyk* → *rgbd*
output: transfer to *cmykd*

TTUB-test chart QE29; hue code: H_d^{*}=R75Y_d
 colors and differences, ΔE^* ,

[illegible]

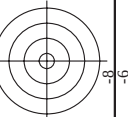


TUB material: code=rha4ta
cmyn6 (CMYK)

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

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1-0032530-F0
OF290-7N, Page 26/33-F



TUB material: code=rha4ta
cmyn6 (CMYK)

input: *rgb/cmyk* → *rgb*
output: transfer to *cmykd*

TTUB-test chart QE29; hue code: H_d^{*}=R75Y_d
colors and differences, ΔE^* ,

n	HIC [†] _{rd}	rgb_{rd}	tcr_{rd}	hla_{rd}	$rgb^{*}rd$	$LabCh^{*}rd$	$LabCh^{*}rd$	$rgb^{*}rd$	$LabCh^{*}rd$	$DE^{*}rd$	$hans_{rd}$	$rgb^{*}rd$	$LabCh^{*}rd$								
567	R00Y.087.087 [†]	0.875	0.0	0.875	0.0	0.0	44.6	50.0	33.1	60.0	31.6	2.1	389	1.0	0.0	0.133	47.5	57.2	37.8	68.6	33.4
568	R36Y.087.087 [†]	0.875	0.0	0.875	0.0	0.116	44.6	49.3	29.6	57.5	27.3	3.9	382	1.0	0.0	0.0	0.0	0.0	0.0	33.8	65.7
569	R23Y.087.087 [†]	0.875	0.0	0.875	0.0	0.233	44.5	50.0	23.1	54.3	25.2	15.0	385	1.0	0.0	0.266	47.5	56.1	26.2	62.0	25.2
570	R08Y.087.087 [†]	0.875	0.0	0.875	0.0	0.364	44.5	50.0	14.4	52.5	21.4	4.0	375	1.0	0.0	0.0	0.416	47.5	57.7	16.5	60.0
571	R08Y.087.087 [†]	0.875	0.0	0.875	0.0	0.449	53.3	43.5	53.5	4.6	0.875	0.0	0.434	55.6	1.0	0.0	0.583	47.9	60.9	4.9	61.1
572	R63R.087.087 [†]	0.875	0.0	0.875	0.0	0.641	45.9	56.2	-4.6	56.4	355.2	4.3	344	1.0	0.0	0.733	49.1	64.2	-5.3	34.4	
573	R63R.087.087 [†]	0.875	0.0	0.875	0.0	0.758	57.8	-9.1	58.3	340.9	0.875	0.0	0.733	49.1	0.0	0.0	0.866	49.5	66.0	-10.4	66.6
574	B56R.087.087 [†]	0.875	0.0	0.875	0.0	0.875	46.3	46.3	57.8	-11.1	58.5	340.9	0.875	0.0	0.0	0.0	0.0	0.0	0.0	66.6	348.9
575	B56R.087.087 [†]	0.875	0.0	0.875	0.0	0.875	51.0	57.2	-11.1	58.5	340.9	0.875	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.6	348.9
576	B44R.100.100 [†]	0.875	0.0	1.0	1.0	0.5	45.8	60.5	-17.0	63.8	344.2	0.875	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	344.2
577	R13Y.087.087 [†]	0.875	0.0	0.875	0.0	0.116	44.6	48.8	63.8	42.9	63.8	42.9	63.8	1.0	0.0	0.133	0.0	0.0	0.0	73.0	42.9
578	R30Y.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
579	R30Y.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
580	R18Y.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
581	R18Y.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
582	B65R.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
583	B65R.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
584	B65R.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.6	42.2	51.4	33.4	0.875	0.125	0.0	0.0	0.0	0.0	0.0	0.0	37.8	68.6
585	B65R.087.075 [†]	0.875	0.125	0.125	0.125	0.0	48.8	50.													



TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* → *rgb*
output: transfer to *cmyk*

6-1

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TUB-test chart QE29; hue code: $H^*_d=R75Y_d$

TUB-test chart QE29; hue colors and differences. ΔE^* ,

1-0032830-F0

see similar files: <http://130.149.60.45/~farbmatrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



<http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF> /PS; transfer output N; no 3D-linearization (OL) in file (F) or PS-startup (S), page 30/33

UB-test chart QE29, hue code: H_d^{*}=R/5Y d
colors and differences, ΔE^{*},

input: *rgb/cmyk* → *rgbd*
output: transfer to *cmykd*

see similar files: <http://130.149.60.45/~farbmatrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

see similar files: <http://130.149.60.45/~farbmatrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB-test chart QE29; hue code: $H^*_d=R75Y_d$
 colors and differences, ΔE^* ,

input: $rgb/cmyk \rightarrow rgbd$
output: transfer to $cmykd$

n	HIC ^{Fe} ₀	rgb^{Fe}	lcr^{Fe}	hs_{Fe}	rgb^{Fe}	$LabCh^{Fe}$	$LabCh^{Fe}$	$LabCh^{Fe}$	rgb^{Fe}	DE^{Fe}	hs_{Fe}	rgb^{Fe}	$LabCh^{Fe}$	$LabCh^{Fe}$
891	NW_100q	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
892	B50R_100.0124	1.0	0.875	1.0	1.0	89.8	8.1	-1.5	8.3	348.9	1.0	0.875	1.0	95.8
893	B50R_100.0254	1.0	0.875	1.0	1.0	87.9	16.3	-4.1	16.6	348.9	1.0	0.875	1.0	95.8
894	B50R_100.0374	1.0	0.625	1.0	1.0	73.9	24.5	-4.7	24.9	348.9	1.0	0.625	1.0	95.8
895	B50R_100.0504	1.0	0.5	1.0	1.0	72.0	32.7	-6.3	33.3	348.9	1.0	0.5	1.0	95.8
896	B50R_100.0624	1.0	0.375	1.0	1.0	66.0	40.8	-7.9	41.6	348.9	1.0	0.375	1.0	95.8
897	B50R_100.0754	1.0	0.25	1.0	1.0	60.1	49.0	-9.5	49.9	348.9	1.0	0.25	1.0	95.8
898	B50R_100.0874	1.0	0.125	1.0	1.0	54.1	57.2	-11.1	58.3	348.9	1.0	0.125	1.0	95.8
899	B50R_100.1004	1.0	0.0	1.0	1.0	48.1	65.4	-12.7	66.6	348.9	1.0	0.0	1.0	95.8
900	NW_0874	0.875	1.0	0.875	1.0	90.6	-8.4	3.8	9.2	155.5	0.875	1.0	0.875	1.0
901	NW_0874	0.875	0.875	0.875	0.875	88.8	8.1	-1.5	8.3	348.9	0.875	0.875	0.875	0.875
902	B50R_087.0124	0.875	0.625	0.875	0.875	74.9	16.3	-4.1	16.6	348.9	0.875	0.625	0.875	0.875
903	B50R_087.0254	0.875	0.625	0.875	0.875	68.9	24.5	-4.7	24.9	348.9	0.875	0.625	0.875	0.875
904	B50R_087.0374	0.875	0.375	0.875	0.875	63.0	32.7	-6.3	33.3	348.9	0.875	0.375	0.875	0.875
905	B50R_087.0504	0.875	0.375	0.875	0.875	57.0	40.8	-7.9	41.6	348.9	0.875	0.375	0.875	0.875
906	B50R_087.0624	0.875	0.25	0.875	0.875	51.1	49.0	-9.5	49.9	348.9	0.875	0.25	0.875	0.875
907	B50R_087.0754	0.875	0.125	0.875	0.875	45.1	57.2	-11.1	58.3	348.9	0.875	0.125	0.875	0.875
908	B50R_087.0874	0.875	0.0	0.875	0.875	39.2	65.4	-12.7	66.6	348.9	0.875	0.0	0.875	0.875
909	B50R_087.1004	0.875	0.875	0.875	0.875	37.8	8.1	-1.5	8.3	348.9	0.875	0.875	0.875	0.875
910	NW_0754	0.75	0.875	0.75	0.875	77.8	0.0	0.0	0.0	155.5	0.75	0.875	0.75	0.875
911	NW_0754	0.75	0.75	0.75	0.75	75.8	0.0	0.0	0.0	155.5	0.75	0.75	0.75	0.75
912	B50R_075.0124	0.75	0.625	0.75	0.625	71.8	8.1	-1.5	8.3	348.9	0.75	0.625	0.75	0.625
913	B50R_075.0254	0.75	0.625	0.75	0.625	65.8	16.3	-4.1	16.6	348.9	0.75	0.625	0.75	0.625
914	B50R_075.0374	0.75	0.375	0.75	0.625	59.9	24.5	-4.7	24.9	348.9	0.75	0.375	0.75	0.625
915	B50R_075.0504	0.75	0.375	0.75	0.625	54.0	32.7	-6.3	33.3	348.9	0.75	0.375	0.75	0.625
916	B50R_075.0624	0.75	0.125	0.75	0.625	48.0	40.8	-7.9	41.6	348.9	0.75	0.125	0.75	0.625
917	B50R_075.0754	0.75	0.0	0.75	0.625	42.1	49.0	-9.5	49.9	3				

n	H* _{CC} -Fid	rgb _{CC} -Fid	ic _{CC} -Fid	h _{ab} -Fid	LabCH _{CC} -Fid	rgb _{CC} *-Fid	LabCH _{CC} *-Fid	DF _{CC} *-Fid	h _{ab} M _d	rgb _{CC} *M _d	LabCH _{CC} *M _d
972	NW 0004	0.0	0.0	0.0	23.8	0.0	22.5	0.0	3.3	360	0.0
973	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
974	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
975	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
976	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
977	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
978	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
979	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
980	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
981	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
982	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
983	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
984	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
985	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
986	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
987	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
988	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
989	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
990	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
991	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
992	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
993	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
994	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
995	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
996	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
997	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
998	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
999	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1000	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1001	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1002	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1003	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1004	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1005	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1006	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1007	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
1008	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1009	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1010	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1011	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1012	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1013	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1014	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1015	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1016	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
1017	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1018	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1019	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1020	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1021	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1022	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1023	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1024	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1025	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
1026	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1027	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1028	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1029	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1030	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1031	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1032	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1033	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1034	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
1035	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1036	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1037	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1038	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1039	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1040	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1041	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1042	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1043	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0
1044	NW 0004	0.0	0.0	0.0	23.8	0.0	0.0	0.0	3.3	1.0	1.0
1045	NW 0124	0.125	0.125	0.125	32.8	0.0	0.0	0.0	49.6	1.0	1.0
1046	NW 0254	0.25	0.25	0.25	41.8	0.0	0.0	0.0	53.9	1.0	1.0
1047	NW 0374	0.375	0.375	0.375	50.8	0.0	0.0	0.0	58.2	1.0	1.0
1048	NW 0504	0.5	0.5	0.5	59.8	0.0	0.0	0.0	62.5	1.0	1.0
1049	NW 0624	0.625	0.625	0.625	68.8	0.0	0.0	0.0	66.8	1.0	1.0
1050	NW 0754	0.75	0.75	0.75	77.8	0.0	0.0	0.0	72.2	1.0	1.0
1051	NW 0874	0.875	0.875	0.875	86.8	0.0	0.0	0.0	76.5	1.0	1.0
1052	NW 1004	1.0	1.0	1.0	95.8	0.0	0.0	0.0	80.8	1.0	1.0

Mean color difference of this page:

delta E* = 3.2



TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* → *rgb*
output: transfer to *cmyk*

TUB-test chart QE29; hue code: H^{*}_d=R75Y_d
colors and differences. ΔE^* ,

[illegible]

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 86/360 = 0.24$

$H^*_- = R75Y_-$

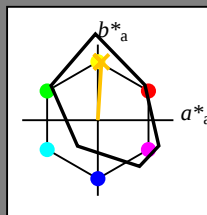
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_- = R75Y_-$

triangle lightness T^*



FRS06a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R-,Ma	32.5	62.3	46.4	77.7	36
Y-,Ma	82.7	-3.1	113.9	114.0	91
G-,Ma	39.4	-61.8	45.8	76.9	143
C-,Ma	47.8	-26.8	-34.2	43.4	231
B-,Ma	10.1	55.1	-61.0	82.2	312
M-,Ma	34.5	80.6	-33.9	87.5	337
N-,Ma	6.2	0.0	0.0	0.0	0
W-,Ma	91.9	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):

$LabCh^*_- ,Ma: 80 \ 4 \ 77 \ 77 \ 86$

$HIC^*_- ,Ma: R75Y_100_100_-$

$rgbic^*_- ,Ma:$

1.0 0.76 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

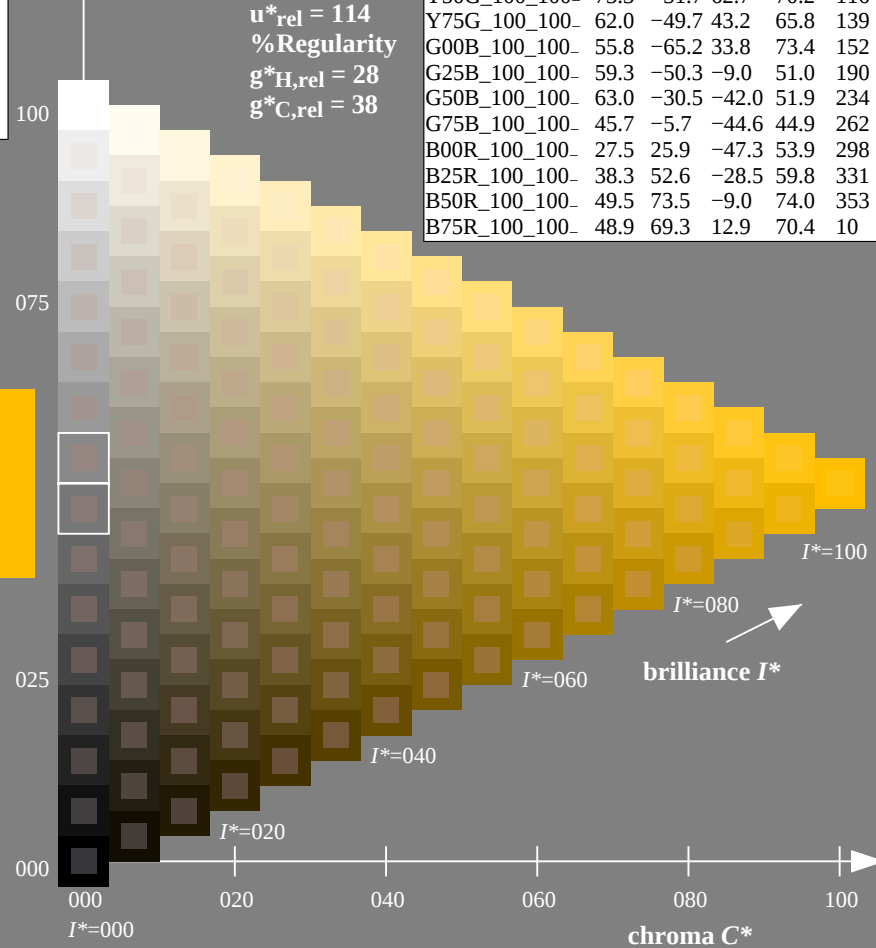
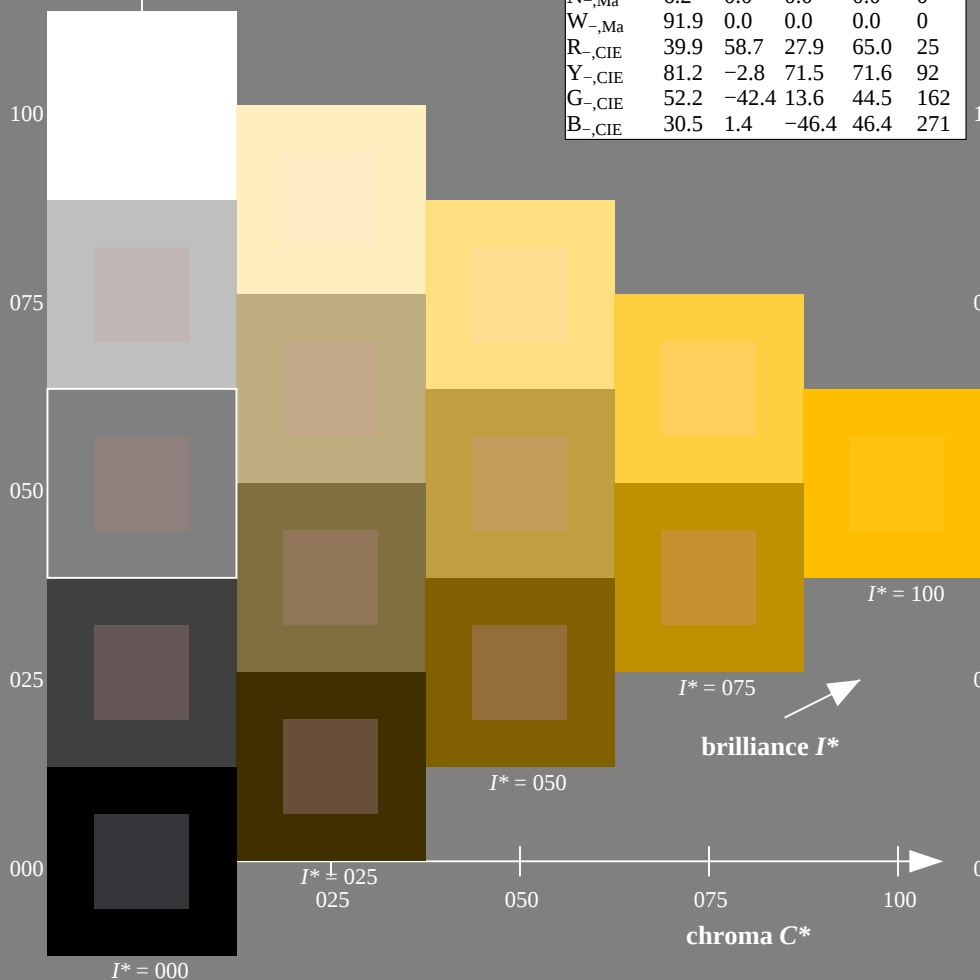
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

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



TUB-test chart QE29; hue code: $H^*_- = R75Y_-$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

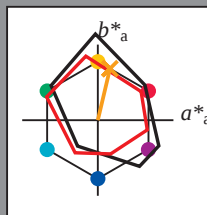
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



LRS18a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	47.5	56.0	26.7	62.1	25
$Y_{e,Ma}$	83.6	-3.1	76.8	76.9	92
$G_{e,Ma}$	53.8	-65.9	21.1	69.2	162
$C_{e,Ma}$	54.9	-38.7	-29.1	48.4	216
$B_{e,Ma}$	37.3	1.4	-48.6	48.7	271
$M_{e,Ma}$	38.5	46.7	-28.5	54.7	328
$N_{e,Ma}$	23.8	0.0	0.0	0.0	0
$W_{e,Ma}$	95.8	0.0	0.0	0.0	0
$R_{e,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{e,CIE}$	81.2	-2.8	71.5	71.6	92
$G_{e,CIE}$	52.2	-42.4	13.6	44.5	162
$B_{e,CIE}$	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e,Ma}$: 72 16 68 70 76

$HIC^*_{e,Ma}$: R75Y_100_100_e

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

1.0 0.55 0.0 1.0 1.0

triangle lightness T^*

% Gamut

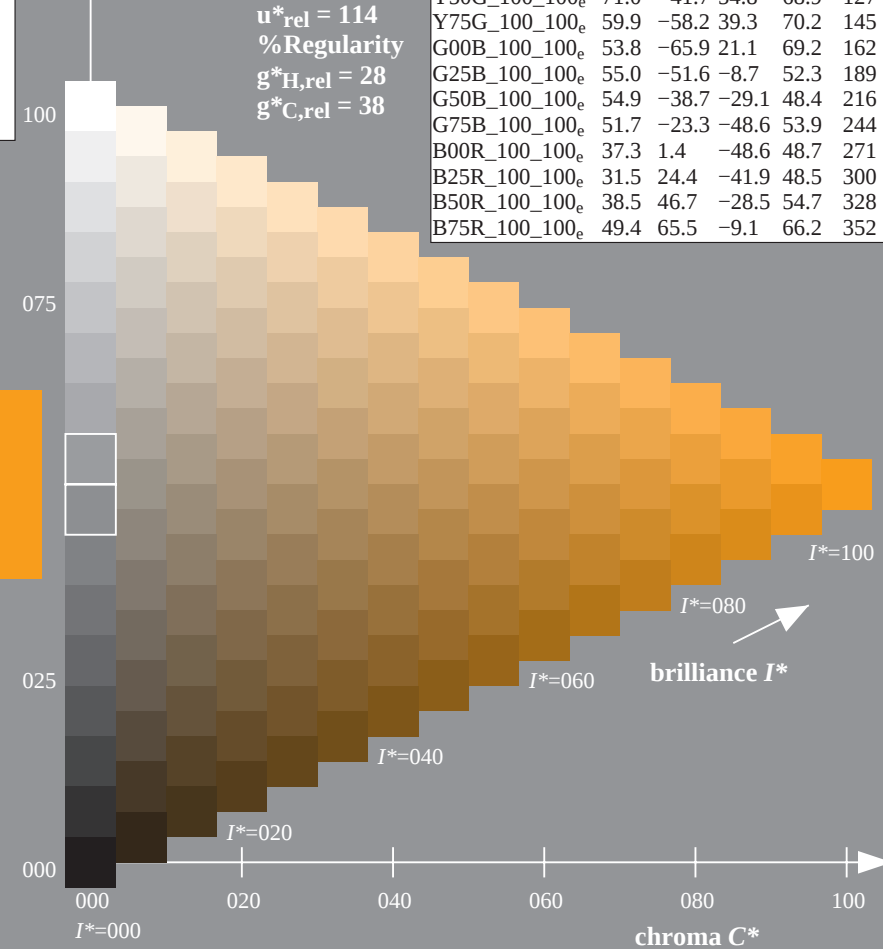
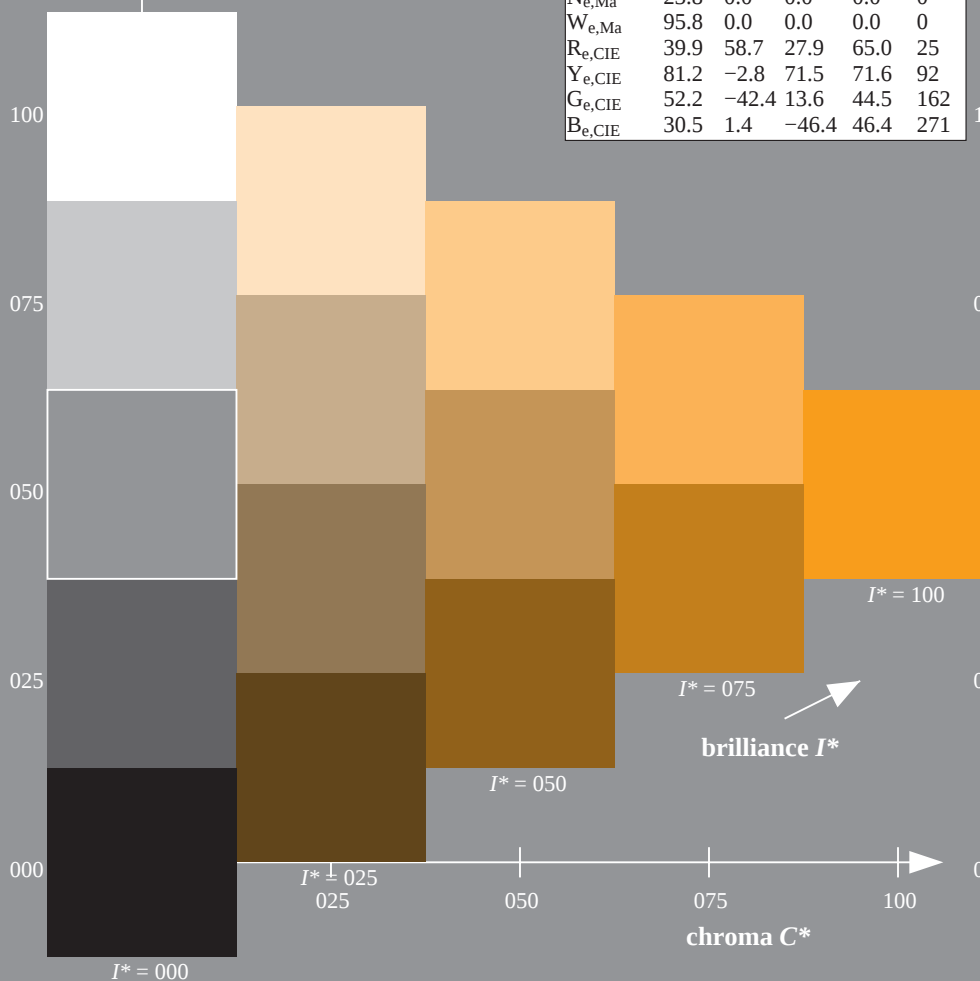
$u^*_{rel} = 114$

% Regularity

$g^*_{H,rel} = 28$

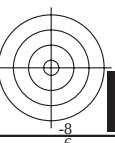
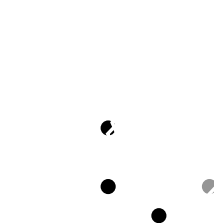
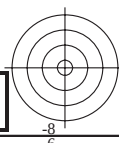
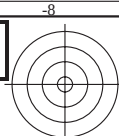
$g^*_{C,rel} = 38$

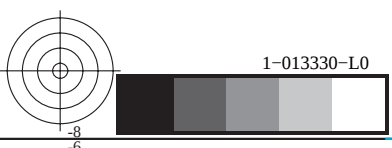
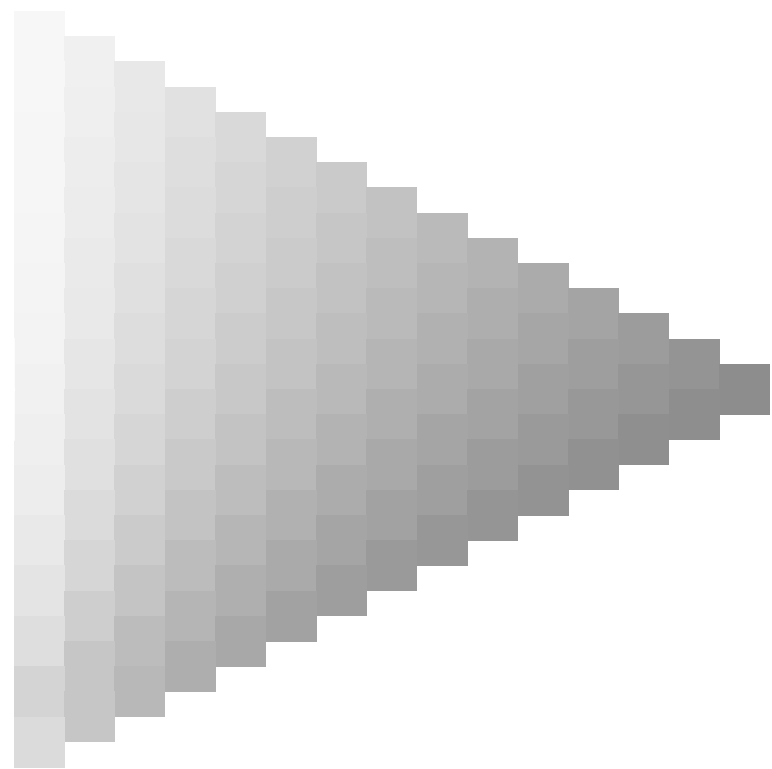
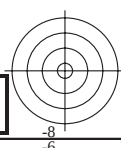
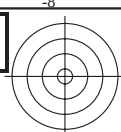
LRS18a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.5	56.0	26.7	62.1	25
R25Y_100_100_e	51.4	54.8	47.7	72.6	41
R50Y_100_100_e	61.8	35.2	58.4	68.2	58
R75Y_100_100_e	72.3	16.1	68.2	70.1	76
Y00G_100_100_e	83.6	-3.1	76.8	76.9	92
Y25G_100_100_e	85.8	-26.4	78.5	82.9	108
Y50G_100_100_e	71.0	-41.7	54.8	68.9	127
Y75G_100_100_e	59.9	-58.2	39.3	70.2	145
G00B_100_100_e	53.8	-65.9	21.1	69.2	162
G25B_100_100_e	55.0	-51.6	-8.7	52.3	189
G50B_100_100_e	54.9	-38.7	-29.1	48.4	216
G75B_100_100_e	51.7	-23.3	-48.6	53.9	244
B00R_100_100_e	37.3	1.4	-48.6	48.7	271
B25R_100_100_e	31.5	24.4	-41.9	48.5	300
B50R_100_100_e	38.5	46.7	-28.5	54.7	328
B75R_100_100_e	49.4	65.5	-9.1	66.2	352



TUB-test chart QE29; hue code: $H^*_e=R75Y_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$





C

M

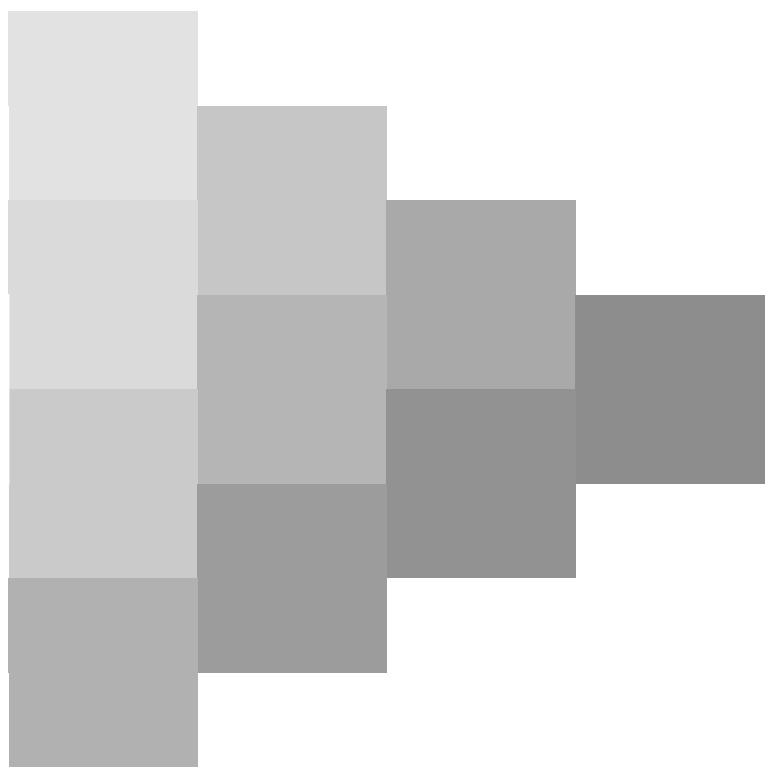
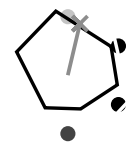
Y

O

L

V

see similar files: <http://130.149.60.45/~farbmetrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



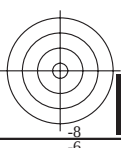
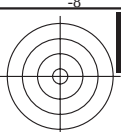
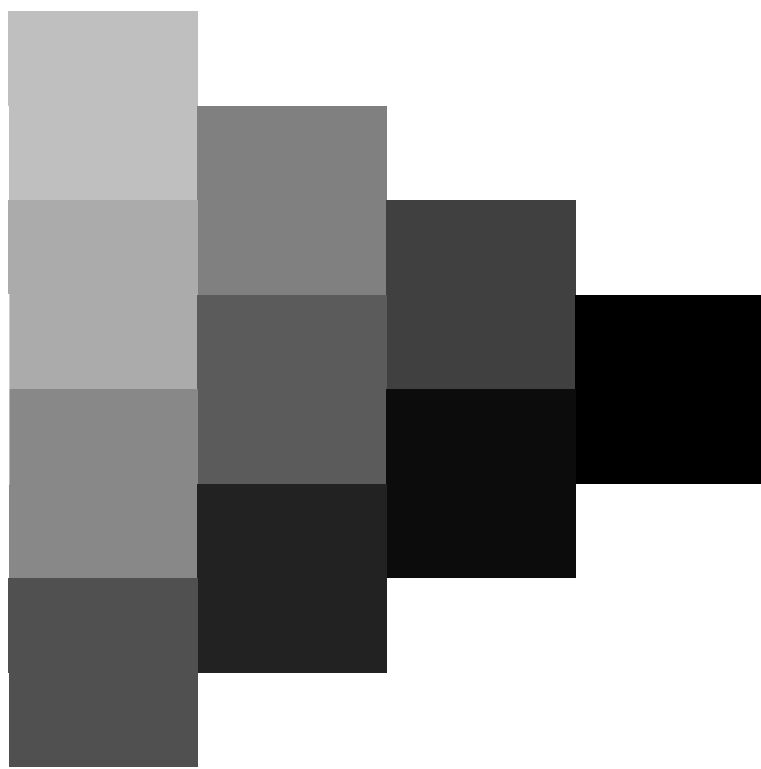
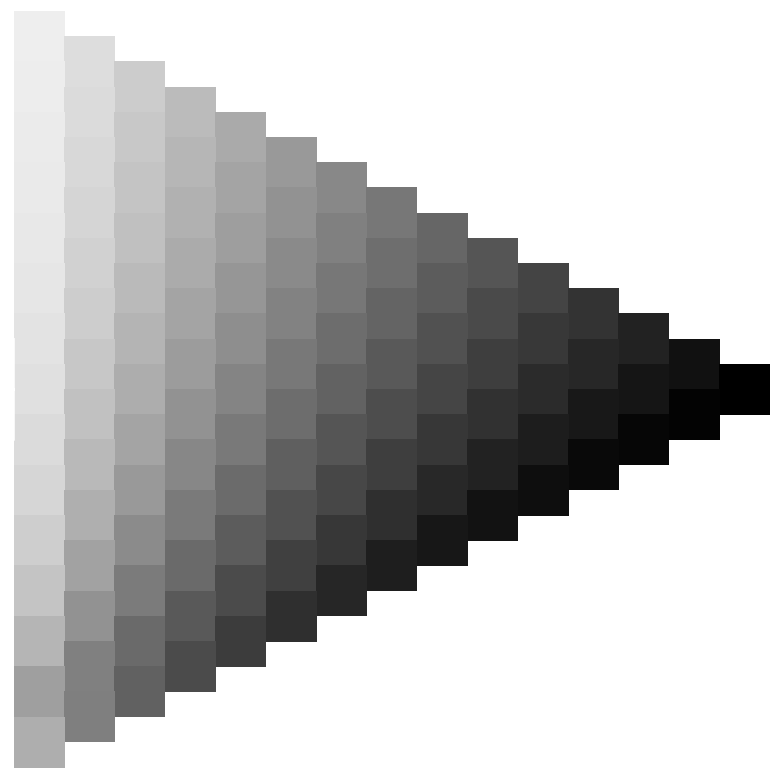
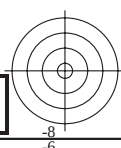
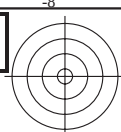
1-013330-L0 QE290-71

TUB-test chart QE29; hue code: $H^*_e=R75Y_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

1-013330-E0

C M Y O L V



Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

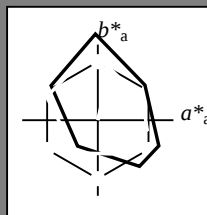
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_e, Ma	47.5	56.0	26.7	62.1	25
Y_e, Ma	83.6	-3.1	76.8	76.9	92
G_e, Ma	53.8	-65.9	21.1	69.2	162
C_e, Ma	54.9	-38.7	-29.1	48.4	216
B_e, Ma	37.3	1.4	-48.6	48.7	271
M_e, Ma	38.5	46.7	-28.5	54.7	328
N_e, Ma	23.8	0.0	0.0	0.0	0
W_e, Ma	95.8	0.0	0.0	0.0	0
R_e, CIE	39.9	58.7	27.9	65.0	25
Y_e, CIE	81.2	-2.8	71.5	71.6	92
G_e, CIE	52.2	-42.4	13.6	44.5	162
B_e, CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_e, Ma$: 72 16 68 70 76

HIC^*_e, Ma : R75Y_100_100_e

$rgbic^*_e, Ma$:

1.0 0.55 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

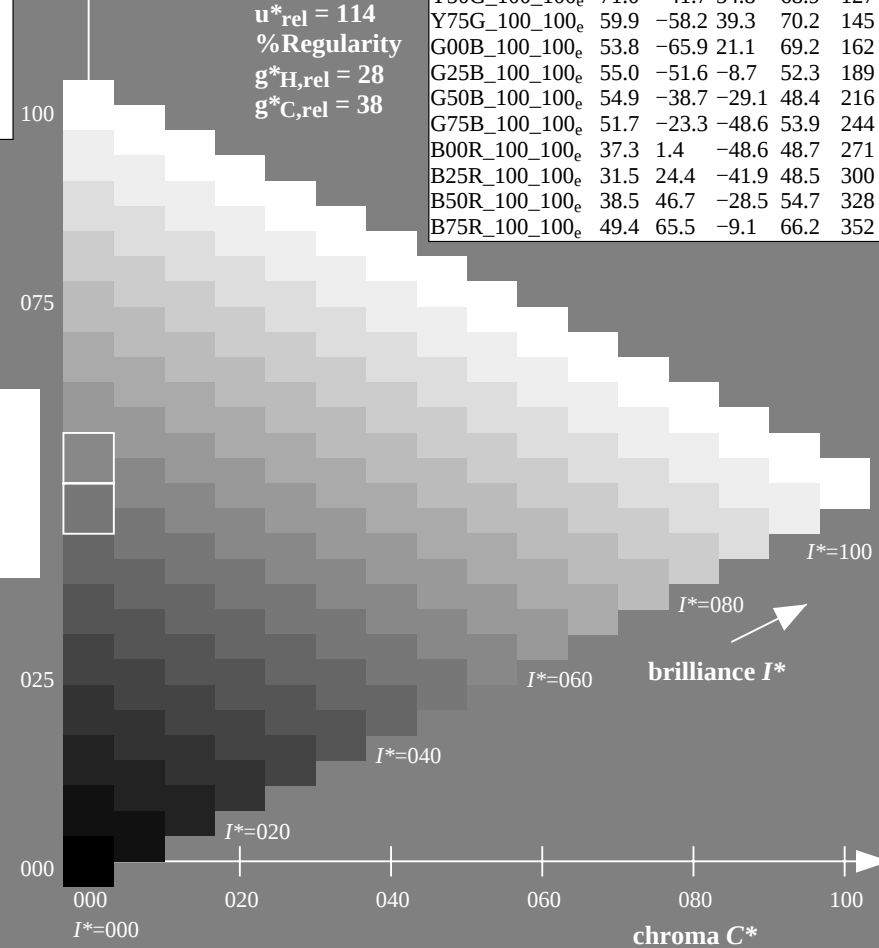
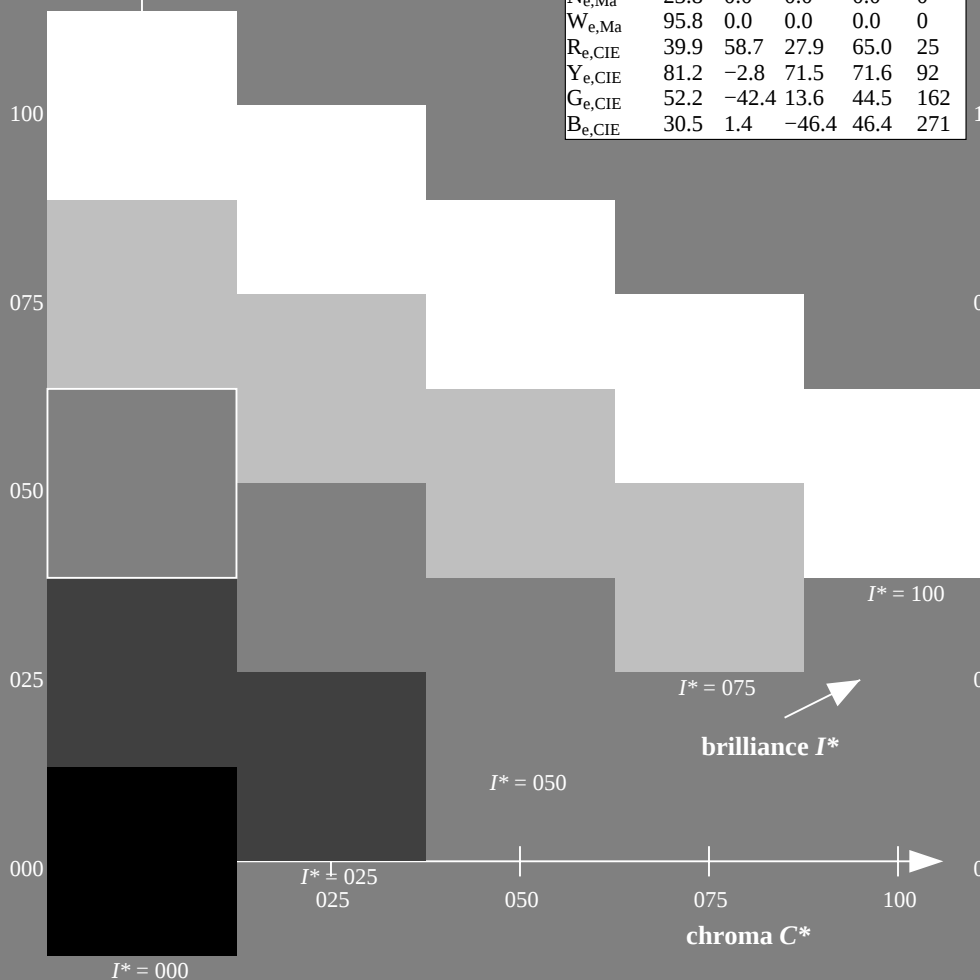
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

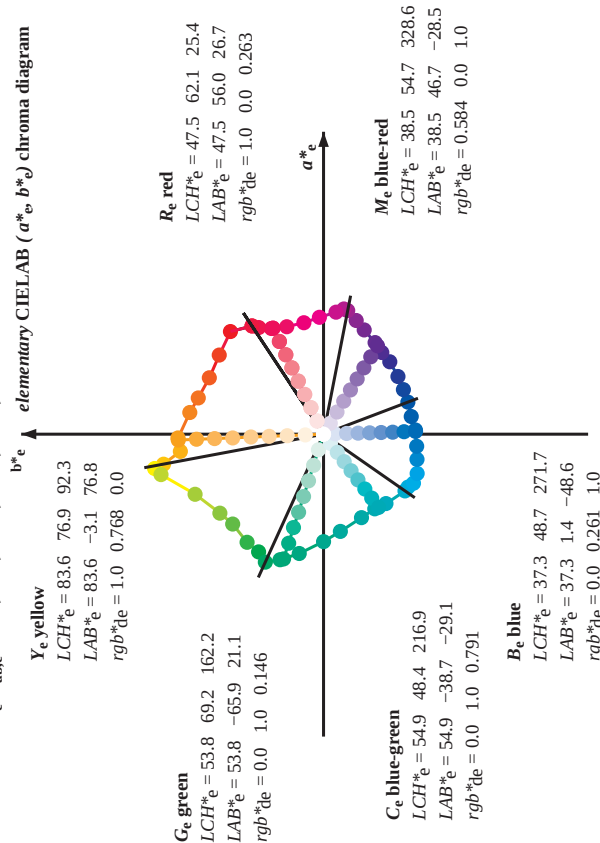
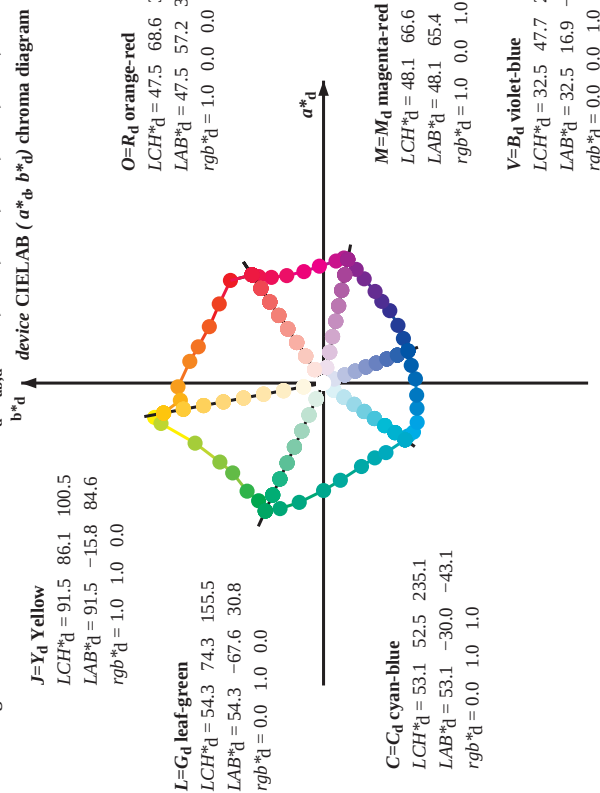
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.5	56.0	26.7	62.1	25
R25Y_100_100_e	51.4	54.8	47.7	72.6	41
R50Y_100_100_e	61.8	35.2	58.4	68.2	58
R75Y_100_100_e	72.3	16.1	68.2	70.1	76
Y00G_100_100_e	83.6	-3.1	76.8	76.9	92
Y25G_100_100_e	85.8	-26.4	78.5	82.9	108
Y50G_100_100_e	71.0	-41.7	54.8	68.9	127
Y75G_100_100_e	59.9	-58.2	39.3	70.2	145
G00B_100_100_e	53.8	-65.9	21.1	69.2	162
G25B_100_100_e	55.0	-51.6	-8.7	52.3	189
G50B_100_100_e	54.9	-38.7	-29.1	48.4	216
G75B_100_100_e	51.7	-23.3	-48.6	53.9	244
B00R_100_100_e	37.3	1.4	-48.6	48.7	271
B25R_100_100_e	31.5	24.4	-41.9	48.5	300
B50R_100_100_e	38.5	46.7	-28.5	54.7	328
B75R_100_100_e	49.4	65.5	-9.1	66.2	352



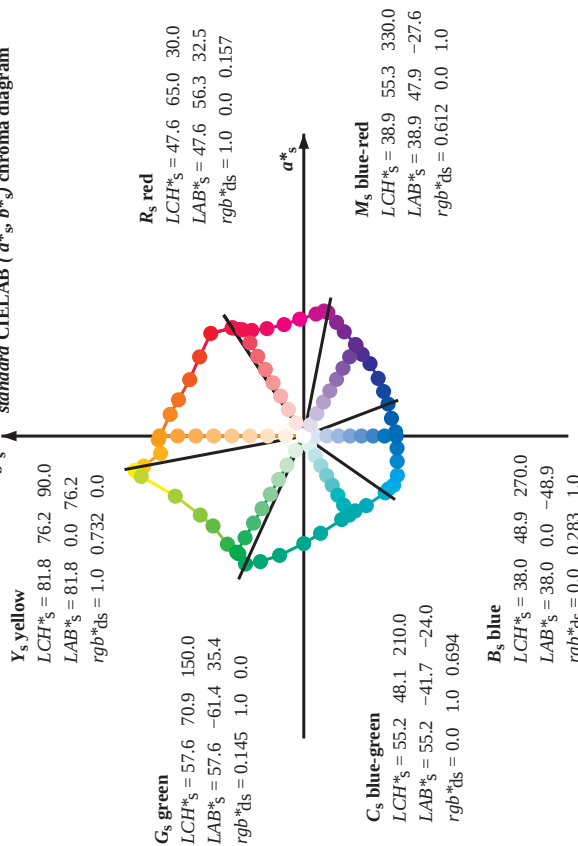
TUB-test chart QE29; hue code: $H^*_e = R75Y_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBCM; $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



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



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

- For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.
- For the calculation of the standard hue angle h_{ab} use for any device values rgb^*_e the equation:

$$h_{ab,s} = \arctan \left[\frac{r^*_d \cos(30) + g^*_d \sin(150)}{1 / r^*_d \sin(30) + g^*_d \sin(150)} \right] + b^*_d \sin(270) \quad (1)$$
- For the 48 or 360 equally spaced standard hue angles h_{ab} of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

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

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$
- For the 48 or 360 elementary hue angles h_{ab} of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

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

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$
- For any elementary hue angle h_{ab} there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
- The values rgb^*_e produce the output of the device-independent elementary hues

Output: Laser printer output; separation cmyk6*, D65, page 7/38

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

TUB-test chart QE29; hue code: $H^*_e = R75Y_e$
48 step hue circles; $rgb-LabCh^*$ tables

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

LAB* _{dt} dx64M (x=LabCh)										LAB* _{dt} dx361M										LAB* _{dt} rgb* _{dt}									
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dt}	dx64M	LAB* _{dt}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dt}	dx361M	LAB* _{dt}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dt}	dx361M	LAB* _{dt}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dt}	dx361M	LAB* _{dt}						
33.4	33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	33.4	33.4	30.0	25.4	1.0	0.0	0.263	47.6	56.1	26.7	62.1	25						
42.1	42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	42.1	42.1	37.5	33.8	1.0	0.0	0.012	47.6	57.2	37.5	68.4	33						
52.8	52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	52.8	52.8	45.0	42.1	1.0	0.125	0.0	52.0	54.3	49.2	73.3	42						
63.7	63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	63.7	63.7	52.5	50.5	1.0	0.216	0.0	56.6	45.2	53.9	70.3	49						
73.8	73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	73.8	73.8	60.0	58.8	1.0	0.32	0.0	61.8	35.2	58.4	68.2	58						
80.7	80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	80.7	80.7	67.5	67.2	1.0	0.412	0.0	66.4	26.9	62.3	67.9	66						
91.5	91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	91.5	91.5	75.0	75.6	1.0	0.532	0.0	71.6	17.3	67.5	69.7	75						
96.8	96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	96.8	96.8	82.5	83.9	1.0	0.655	0.0	76.9	8.4	72.5	73.0	83						
100.5	100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	100.5	100.5	90.0	92.3	1.0	0.769	0.0	83.7	-3.0	76.8	76.9	92						
101.4	101.4	97.5	101.0	1.0	0.875	1.0	92.8	-18.1	89.4	91.2	101.4	101.4	101.4	97.5	101.0	1.0	0.996	0.0	91.5	-15.5	84.4	85.8	100						
103.9	103.9	105.0	109.7	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103.9	103.9	103.9	105.0	109.7	0.75	1.0	0.684	1.0	0.0	84.7	-27.5	76.7	81.5	109				
115.0	115.0	112.5	118.5	0.625	1.0	0.0	79.9	-31.7	67.9	75.0	115.0	115.0	115.0	112.5	118.5	0.625	1.0	0.595	1.0	0.0	77.8	-34.4	65.0	73.6	117				
127.3	127.3	127.3	120.0	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	127.3	127.3	127.3	120.0	0.5	1.0	0.710	0.0	71.0	-41.6	54.9	68.9	127					
134.7	134.7	134.7	127.5	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	134.7	134.7	134.7	127.5	0.375	1.0	0.662	0.0	66.2	-48.2	47.6	67.8	135					
144.7	144.7	144.7	135.0	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	144.7	144.7	144.7	135.0	0.25	1.0	0.606	0.0	60.6	-57.1	40.5	70.1	144					
151.0	151.0	151.0	142.5	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	151.0	151.0	151.0	142.5	0.125	1.0	0.559	0.0	55.9	-64.4	33.0	72.5	152					
155.5	155.5	155.5	150.0	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	155.5	155.5	155.5	150.0	0.0	1.0	0.147	53.8	-65.9	21.1	69.3	162						
160.8	160.8	160.8	157.5	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	160.8	160.8	160.8	157.5	0.0	1.0	0.251	53.8	-63.0	12.7	64.4	168						
168.5	168.5	168.5	165.0	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	168.5	168.5	168.5	165.0	0.0	1.0	0.331	54.4	-59.3	4.2	59.5	175						
179.9	179.9	179.9	172.5	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	179.9	179.9	179.9	172.5	0.0	1.0	0.405	54.8	-55.6	-2.1	55.7	182						
189.8	189.8	189.8	180.0	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	189.8	189.8	189.8	180.0	0.0	1.0	0.497	55.0	-51.5	-8.6	52.3	189						
204.4	204.4	204.4	187.5	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	204.4	204.4	204.4	187.5	0.0	1.0	0.553	55.2	-48.6	-13.9	50.7	195						
214.4	214.4	214.4	190.5	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	214.4	214.4	214.4	190.5	0.0	1.0	0.615	55.3	-44.7	-19.2	48.8	203						
221.9	221.9	221.9	202.5	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	221.9	221.9	221.9	202.5	0.0	1.0	0.69	55.3	-41.8	-23.8	48.2	209						
235.1	235.1	235.1	210.0	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	235.1	235.1	235.1	210.0	0.0	1.0	0.792	55.0	-38.6	-29.0	48.4	216						
237.9	237.9	237.9	215.0	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	237.9	237.9	237.9	215.0	0.0	0.875	1.0	0.888	54.3	-36.1	-34.1	49.8	223					
241.3	241.3	241.3	220.5	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241.3	241.3	241.3	241.3	220.5	0.0	0.75	1.0	0.957	53.6	-32.5	-39.7	51.5	230					
247.2	247.2	247.2	232.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	247.2	247.2	247.2	232.5	0.0	0.625	1.0	0.916	1.0	53.1	-28.6	-44.1	52.7	237				
254.9	254.9	254.9	240.0	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	254.9	254.9	254.9	240.0	0.0	0.5	1.0	0.686	1.0	51.7	-23.3	-48.5	54.0	244				
262.6	262.6	262.6	247.5	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	262.6	262.6	262.6	247.5	0.0	0.375	1.0	0.568	1.0	48.6	-17.2	-49.5	52.6	250				
272.6	272.6	272.6	255.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	272.6	272.6	272.6	255.0	0.0	0.25	1.0	0.449	1.0	44.2	-10.4	-49.4	50.6	258				
281.4	281.4	281.4	262.5	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	281.4	281.4	281.4	262.5	0.0	0.125	1.0	0.353	1.0	40.6	-4.7	-49.2	49.5	264				
290.8	290.8	290.8	270.0	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	290.8	290.8	290.8	270.0	0.0	0.0	1.0	0.261	1.0	37.3	1.5	-48.6	48.7	271				
299.2	299.2	299.2	277.5	0.125	0.0	1.0	31.6	23.6	-42.2	48.4	299.2	299.2	299.2	299.2	277.5	0.125	0.0	0.169	1.0	35.7	7.0	-47.2	47.8	278					
307.8	307.8	307.8	285.0	0.25	0.0	1.0	31.0	30.5	-39.3	49.8	307.8	307.8	307.8	307.8	285.0	0.25	0.0	0.065	1.0	33.9	13.1	-45.6	47.5	285					
317.5	317.5	317.5	292.5	0.375	0.0	1.0	34.2	38.2	-35.0	51.8	317.5	317.5	317.5	317.5	292.5	0.375	0.0	0.026	0.0	32.4	18.4	-44.1	47.9	292					
324.4	324.4	324.4	300.0	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	324.4	324.4	324.4	300.0	0.5	0.0	0.002	0.0	31.5	24.4	-41.9	48.6	300					
330.6	330.6	330.6	307.5	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	330.6	330.6	330.6	307.5	0.625	0.0	0.001	0.0	31.1	29.8	-39.7	49.7	306					
338.7	338.7	338.7	315.0	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	338.7	338.7	338.7	315.0	0.75	0.0	0.001	0.0	33.2	35.8	-36.5	51.2	314					
343.9	343.9	343.9	322.5	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	343.9	343.9	343.9	322.5	0.875	0.0	0.001	0.0	35.8	40.8	-32.9	52.5	321					
348.9	348.9	348.9	330.0	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	348.9	348.9	348.9	330.0	1.0	0.0	0.001	0.0	38.5	46.8	-28.4	54.8	328					
350.7	350.7	350.7	337.5	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	350.7	350.7	350.7	337.5	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	350.7					
354.2	354.2	354.2	345.0	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	354.2	354.2	354.2	345.0	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	354.2					
361.9	361.9	361.9	352.5	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	361.9	361.9	361.9	352.5	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	361.9					
370.0	370.0	370.0	360.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	370.0	370.0	370.0	360.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	370.0					
378.9	378.9	378.9	367.5	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	378.9	378.9	378.9	367.5	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	378.9					
386.2	386.2	386.2	375.0	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	386.2	386.2	386.2	375.0	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	386.2					
391.3	391.3	391.3	382.5	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3	391.3	391.3	391.3	382.5	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3	391.3					
393.4	393.4	393.4	390.0	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4	393.4	393.4	390.0	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4					

Output: Laser printer output; separation cmyk6*, D65, page 9/35

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

TUB-test chart QE29; hue code: $H^*_e = R75Y_e$
48 step hue circles; $rgb-LabCh$ *tables

see similar files: <http://130.149.60.45/~farbmetrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmatrik/QE29/QE29LONP.PDF> /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 10/33

LAB*a0, YN=0% XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*_{nw}=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

TUB-test chart QE29; hue code: H*_e=R75Y_e

48 step hue circles; *rgb-LabCh**tables

input: *rgb/cmyk* -> *rgbe*
output: transfer to *cmyke*

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGCBM; $h_{ab} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$.

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

Output: Laser printer output; separation cmyn6*, D65, page 10/33

-013930-I.0	0F290-71	LAB*1a0, YN=0%, XYZ _{nw} =3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB* _{nw} =23.9 0.0, 0.0, 95.8, 0.0, 0.0
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1

input: *rgb/cmyk* - $\rightarrow$ *rgbe*
 output: transfer to *cmyke*

TTUB-test chart QE29; hue code: $H^*_e=R75Y_e$
 48 step hue circles: *rab-LabCh**tables

Output: Laser printer output: separation cmv6*. D65 page 14/83

Output: Laser printer output: separation cmv6*. D65 page 14/83

Output: Laser printer output: separation cmv6*. D65 page 14/83

nj	HC*Fe	rgb_Fe	icr_Fe	hsa_Fa	LabCH*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsa_Me	rgb*Me	LabCH*Me	DF*Me	hsa_Me	rgb*Me	LabCH*Me	DF*Me	hsa_Me
0/648	R00Y_100_100e	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/657	R13Y_100_100e	1.0	0.125	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/666	R25Y_100_100e	1.0	0.25	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/675	R38Y_100_100e	1.0	0.375	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4/684	R50Y_100_100e	1.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/693	R63Y_100_100e	1.0	0.625	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/702	R75Y_100_100e	1.0	0.75	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/711	R88Y_100_100e	1.0	0.875	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8/720	Y00C_100_100e	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/639	Y13C_100_100e	0.875	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/558	Y25C_100_100e	0.75	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/477	Y38C_100_100e	0.625	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/396	Y50C_100_100e	0.5	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13/315	Y63C_100_100e	0.375	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14/234	Y75C_100_100e	0.25	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15/153	Y88C_100_100e	0.125	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16/72	G00C_100_100e	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17/73	G13C_100_100e	0.0	1.0	0.125	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18/74	G25C_100_100e	0.0	1.0	0.25	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19/75	G38C_100_100e	0.0	1.0	0.375	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20/76	G50C_100_100e	0.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21/77	G63C_100_100e	0.0	1.0	0.625	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22/78	G75C_100_100e	0.0	1.0	0.75	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23/79	G88C_100_100e	0.0	1.0	0.875	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24/80	C00B_100_100e	0.0	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	0.0
25/81	C13B_100_100e	0.0	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	0.0
26/82	C25B_100_100e	0.0	0.875	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	0.0
27/83	C38B_100_100e	0.0	0.75	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	0.0
28/84	C50B_100_100e	0.0	0.625	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	0.0
29/85	C63B_100_100e	0.0	0.5	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	0.0
30/86	C75B_100_100e	0.0	0.375	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	0.0
31/87	C88B_100_100e	0.0	0.25	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	0.0
32/8	B00M_100_100e	0.0	0.0	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	0.0
33/89	B13M_100_100e	0.125	0.0	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	0.0
34/170	B25M_100_100e	0.25	0.0	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	0.0
35/251	B38M_100_100e	0.375	0.0	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	0.0
36/332	B50M_100_100e	0.5	0.0	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	0.0
37/413	B63M_100_100e	0.625	0.0	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	0.0
38/494	B75M_100_100e	0.75	0.0	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	0.0
39/575	B88M_100_100e	0.875	0.0	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	0.0
40/656	M00R_100_100e	1.0	0.0	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	0.0
41/655	M13R_100_100e	1.0	0.0	0.875	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42/654	M25R_100_100e	1.0	0.0	0.75	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43/653	M38R_100_100e	1.0	0.0	0.625	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44/652	M50R_100_100e	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45/651	M63R_100_100e	1.0	0.0	0.375	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46/650	M75R_100_100e	1.0	0.0	0.25	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47/649	M88R_100_100e	1.0	0.0	0.125	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48/648	R00Y_100_100e	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49/0	NW_00e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
50/91	NW_01e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
51/182	NW_02e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
52/273	NW_03e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
53/364	NW_04e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
54/455	NW_05e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
55/546	NW_06e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
56/637	NW_07e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
57/728	NW_10e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Mean color difference of this page:

delta E* = 14.2



TUB material: code=rha4ta
myn6 (CMYK)

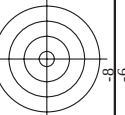
input: *rgb/cmyk* → *rgb*_e
output: transfer to *cmyk*_e

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$n/\bar{n}$	HIC*Fe	rgb_{Fe}	$\tau_{c,Fe}$	$h_{a,Fe}$	rgb^{*Fe}	$LabCh^{*Fe}$	rgb^{*Fe}	$LabCh^{*Fe}$	DE^{*Fe}	$h_{a,Fe}$	rgb^{*Fe}	$LabCh^{*Fe}$	$LabCh^{*Fe}$		
0.666	R00Y_100_100e	1.0	0.0	1.0	0.5	390	1.0	0.0	0.263	56.0	47.5	56.0	26.7	62.1	25.4
1.0	R05Y_100_100e	1.0	0.25	1.0	0.5	44	1.0	0.108	0.0	51.4	54.8	47.7	72.6	41.0	58.8
1.0	R25Y_100_100e	1.0	0.5	1.0	0.5	60	1.0	0.319	0.0	61.8	68.2	58.4	68.2	58.8	68.2
1.0	R50Y_100_100e	1.0	0.75	1.0	0.5	76	1.0	0.551	0.0	72.3	77.0	63.1	68.2	70.1	76.7
1.0	R75Y_100_100e	1.0	1.0	1.0	0.5	90	1.0	0.768	0.0	83.6	86.1	70.8	76.9	92.3	92.3
1.0	Y00G_100_100e	0.75	1.0	0.0	0.5	104	0.697	1.0	0.0	85.8	88.6	103.5	106.9	107	108.6
0.5	Y25G_100_100e	0.5	1.0	0.0	0.5	120	0.5	1.0	0.0	90.1	91.5	15.8	86.8	82.9	108.6
0.5	Y50G_100_100e	0.25	1.0	0.0	0.5	136	0.227	1.0	0.0	60.6	57.2	40.4	70.1	147.3	145.9
0.0	Y75G_100_100e	0.0	1.0	0.0	0.5	150	0.0	1.0	0.0	54.3	47.6	30.8	74.3	155.5	162.2
0.0	G00B_100_100e	0.0	1.0	0.0	0.5	150	0.0	1.0	0.0	54.3	47.6	30.8	74.3	155.5	162.2
0.0	G25B_100_100e	0.0	1.0	0.0	0.5	180	0.0	1.0	0.0	54.3	47.6	30.8	74.3	155.5	162.2
0.0	G50B_100_100e	0.0	1.0	0.0	0.5	240	0.0	1.0	0.0	54.3	47.6	30.8	74.3	155.5	162.2
0.0	G75B_100_100e	0.0	1.0	0.0	0.5	270	0.0	1.0	0.0	54.3	47.6	30.8	74.3	155.5	162.2
0.0	B00M_100_100e	0.0	1.0	0.0	0.5	300	0.138	0.0	1.0	31.5	24.4	41.9	48.5	300.1	300.1
0.5	B25R_100_100e	0.5	0.0	1.0	0.5	330	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	328.6
1.0	B50R_100_100e	1.0	0.0	0.5	0.5	360	1.0	0.0	0.0	47.8	58.9	10.4	59.9	10.0	20.7
1.0	B75R_100_100e	1.0	0.0	0.5	0.5	390	1.0	0.0	0.0	47.8	58.9	10.4	59.9	10.0	20.7
1.0	R00Y_100_050e	1.0	0.5	0.5	0.75	390	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4	25.4
1.0	R05Y_100_050e	1.0	0.75	0.5	0.5	390	1.0	0.5	0.5	71.4	24.0	27.4	36.4	48.8	14.6
1.0	R25Y_100_050e	1.0	1.0	0.5	0.5	390	1.0	0.75	0.5	83.6	2.8	39.3	39.4	85.7	18.5
1.0	R50Y_100_050e	1.0	1.0	0.5	0.5	60	1.0	0.884	0.5	89.7	-1.5	36.4	36.6	79.7	14.0
1.0	R75Y_100_050e	1.0	1.0	0.5	0.5	90	1.0	1.0	0.5	93.1	-11.8	45.5	47.0	104.6	12.8
0.75	Y00G_100_050e	0.75	1.0	0.5	0.75	120	0.75	1.0	0.5	86.2	-21.9	37.8	43.7	120.1	10.8
0.5	Y25G_100_050e	0.5	1.0	0.5	0.75	150	0.5	1.0	0.5	75.4	-30.5	11.7	35.6	138.9	2.8
0.5	Y50G_100_050e	0.5	1.0	0.5	0.75	170	0.5	1.0	0.5	73.9	-17.1	32.4	32.4	158.0	1.1
0.5	Y75G_100_050e	1.0	1.0	0.5	0.75	210	1.0	0.5	0.5	75.4	11.5	-37.2	32.4	208.9	1.3
0.5	B00R_100_050e	1.0	1.0	0.5	0.75	270	1.0	0.5	0.5	71.6	36.1	-89.3	37.2	346.1	14.5
0.5	B25R_100_050e	1.0	0.5	1.0	0.5	330	0.792	0.5	1.0	67.1	24.0	27.4	36.4	48.8	14.6
0.5	B50R_100_050e	1.0	0.5	0.5	0.75	390	1.0	0.5	0.5	71.4	24.0	27.4	36.4	48.8	14.6
0.5	B75R_100_050e	1.0	0.5	0.5	0.75	390	1.0	0.5	0.5	71.4	24.0	27.4	36.4	48.8	14.6
0.75	R00Y_075_050e	0.75	0.25	0.75	0.5	390	0.75	0.25	0.25	52.4	27.1	25.3	37.1	43.0	12.1
0.75	R05Y_075_050e	0.75	0.25	0.75	0.5	390	0.75	0.25	0.25	52.4	27.1	25.3	37.1	43.0	12.1
0.75	R25Y_075_050e	0.75	0.25	0.75	0.5	390	0.75	0.25	0.25	52.4	27.1	25.3	37.1	43.0	12.1
0.75	R50Y_075_050e	0.75	0.25	0.75	0.5	390	0.75	0.25	0.25	52.4	27.1	25.3	37.1	43.0	12.1
0.75	R75Y_075_050e	0.75	0.25	0.75	0.5	390	0.75	0.25	0.25	52.4	27.1	25.3	37.1	43.0	12.1
0.5	Y00G_050_050e	0.5	0.0	0.5	0.25	390	0.5	0.0	0.131	35.7	28.0	13.3	31.0	25.4	25.4
0.5	Y25G_050_050e	0.5	0.25	0.5	0.25	60	0.5	0.159	0.0	42.8	17.6	29.2	34.1	58.8	58.8
0.5	Y50G_050_050e	0.5	0.5	0.5	0.25	90	0.5	0.384	0.0	53.7	-1.5	36.4	38.4	92.3	92.3
0.25	Y75G_050_050e	0.25	0.5	0.5	0.25	120	0.25	0.5	0.0	47.4	-20.8	27.4	34.4	127.2	127.2
0.0	G00B_050_050e	0.0	0.5	0.5	0.25	150	0.0	0.5	0.073	38.8	-32.9	10.5	34.6	162.2	162.2
0.0	G25B_050_050e	0.0	0.5	0.5	0.25	150	0.0	0.5	0.395	39.4	-19.3	-14.5	24.2	216.9	216.9
0.0	G50B_050_050e	0.0	0.5	0.5	0.25	210	0.0	0.5	0.13	30.5	0.7	-24.3	24.3	271.7	271.7
0.0	G75B_050_050e	0.0	0.5	0.5	0.25	270	0.0	0.5	0.5	31.1	23.3	-14.2	27.3	328.6	328.6
0.5	B00R_050_050e	0.5	0.0	0.5	0.25	330	0.292	0.0	0.5	35.7	28.0	13.3	31.0	25.4	25.4
0.5	B25R_050_050e	0.5	0.0	0.5	0.25	390	0.5	0.0	0.131	35.7	28.0	13.3	31.0	25.4	25.4
0.5	B50R_050_050e	0.5	0.0	0.5	0.25	390	0.5	0.0	0.131	35.7	28.0	13.3	31.0	25.4	25.4
0.5	B75R_050_050e	0.5	0.0	0.5	0.25	390	0.5	0.0	0.131	35.7	28.0	13.3	31.0	25.4	25.4
0.0	NW_000e	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0
0.125	NW_013e	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	27.8	0.0	-0.5	0.5	273.6	273.6
0.25	NW_025e	0.25	0.25	0.25	0.25	360	0.25	0.25	0.25	27.8	0.0	-0.5	0.5	273.6	273.6
0.375	NW_037e	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	27.8	0.0	-0.5	0.5	273.6	273.6
0.5	NW_050e	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	27.8	0.0	-0.5	0.5	273.6	273.6
0.625	NW_062e	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	27.8	0.0	-0.5	0.5	273.6	273.6
0.75	NW_075e	0.75	0.75	0.75	0.75	360	0.75	0.75	0.75	27.8	0.0	-0.5	0.5	273.6	273.6
0.875	NW_087e	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	27.8	0.0	-0.5	0.5	273.6	273.6
1.0	NW_100e	1.0	1.0	1.0	1.0	360	1.0	1.0	1.0	27.8	0.0	-0.5	0.5	273.6	273.6

Mean color difference of this page:

delta E* = 12.1



TUB material: code=rha4ta
cmyn6 (CMYK)

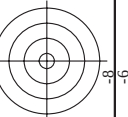
input: *rgb/cmyk* -> *rgb*
output: transfer to *cmyk*

1-0131930-F0	
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[illegible]

n	HIC*Fe	rgb*Fe	icL*Fe	hsa*Fe	rgb*Fe	LabCh*Fe	LabCh*Fe	10.0	23.2	25.4	rgb*Fe	LabCh*Fe	19.8	32.8	37.1	DF*Fe	hsm*Fe	rgb*Fe	LabCh*Fe	47.5	56.0	26.7	62.1	25.4			
243	R00Y.037.037a	0.375 0.0 0.125	0.375 0.375 0.187	390	0.375 0.0 0.098	32.7	21.0	10.0	23.2	25.4	0.375 0.0 0.125	31.0	25.3	19.8	32.8	11.2	375	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4		
244	R10Y.037.037a	0.375 0.0 0.125	0.375 0.375 0.187	371	0.375 0.0 0.22	32.8	21.0	10.0	23.2	25.4	0.375 0.0 0.125	31.0	25.3	19.8	32.8	11.2	375	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4		
245	B65R.037.037a	0.375 0.0 0.375	0.375 0.375 0.187	349	0.353 0.0 0.375	32.5	23.6	5.6	24.2	328.6	0.375 0.0 0.25	32.8	30.2	25.3	32.8	7.3	305	0.941	0.0	1.0	47.0	63.0	46.7	61.2	44.3		
246	B65R.037.037a	0.375 0.0 0.375	0.375 0.375 0.187	349	0.353 0.0 0.375	32.5	23.6	5.6	24.2	328.6	0.375 0.0 0.25	32.8	30.2	25.3	32.8	7.3	305	0.941	0.0	1.0	47.0	63.0	46.7	61.2	44.3		
247	B30R.062.050a	0.375 0.0 0.5	0.375 0.375 0.187	307	0.173 0.0 0.5	28.6	18.2	24.8	20.5	315.3	0.375 0.0 0.375	33.5	35.7	25.3	35.7	11.0	374	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6		
248	B30R.062.050a	0.375 0.0 0.5	0.375 0.375 0.187	307	0.173 0.0 0.5	28.6	18.2	24.8	20.5	315.3	0.375 0.0 0.375	33.5	35.7	25.3	35.7	11.0	374	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6		
249	B25R.087.075a	0.375 0.0 0.625	0.375 0.375 0.187	307	0.147 0.0 0.625	28.3	18.6	24.8	20.5	306.8	0.375 0.0 0.625	32.2	37.2	24.4	44.5	32.6	19.0	283	0.235	0.0	1.0	31.5	24.4	41.9	48.5	306.8	
250	B25R.087.075a	0.375 0.0 0.625	0.375 0.375 0.187	307	0.147 0.0 0.625	28.3	18.6	24.8	20.5	306.8	0.375 0.0 0.625	32.2	37.2	24.4	44.5	32.6	19.0	283	0.235	0.0	1.0	31.5	24.4	41.9	48.5	306.8	
251	B10R.100.100a	0.375 0.0 0.875	0.375 0.375 0.187	295	0.06 0.0 0.875	31.0	18.0	38.0	42.0	295.4	0.375 0.0 0.875	34.5	38.8	33.1	51.0	31.5	21.6	273	0.068	0.0	1.0	32.0	20.6	43.4	48.5	295.4	
252	B10R.100.100a	0.375 0.0 0.875	0.375 0.375 0.187	295	0.06 0.0 0.875	31.0	18.0	38.0	42.0	295.4	0.375 0.0 0.875	34.5	38.8	33.1	51.0	31.5	21.6	273	0.068	0.0	1.0	32.0	20.6	43.4	48.5	295.4	
253	R31Y.037.037a	0.375 0.125 0.125	0.375 0.375 0.187	49	0.375 0.066 0.0	35.3	18.4	19.5	26.8	46.6	0.375 0.125 0.0	34.2	38.2	35.0	51.8	21.9	271	0.026	0.0	1.0	32.3	18.3	44.1	47.8	293.5		
254	R00Y.037.025a	0.375 0.125 0.375	0.375 0.375 0.187	390	0.375 0.124 0.331	39.2	16.3	22.2	16.5	352.0	0.375 0.125 0.25	37.5	37.5	19.8	18.1	21.2	49.5	9.4	37.5	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4
255	R00Y.037.025a	0.375 0.125 0.375	0.375 0.375 0.187	390	0.375 0.124 0.331	39.2	16.3	22.2	16.5	352.0	0.375 0.125 0.25	37.5	37.5	19.8	18.1	21.2	49.5	9.4	37.5	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4
256	B50R.037.025a	0.375 0.125 0.5	0.375 0.375 0.187	325	0.271 0.124 0.5	36.5	11.6	7.1	13.6	328.6	0.375 0.125 0.375	38.9	24.5	10.7	26.7	33.6	13.5	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
257	B50R.037.025a	0.375 0.125 0.5	0.375 0.375 0.187	325	0.271 0.124 0.5	36.5	11.6	7.1	13.6	328.6	0.375 0.125 0.375	38.9	24.5	10.7	26.7	33.6	13.5	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
258	B34R.050.037a	0.375 0.125 0.625	0.375 0.375 0.187	311	0.232 0.124 0.5	36.8	12.3	14.3	18.9	310.5	0.375 0.125 0.375	38.9	24.5	10.7	26.7	33.6	13.5	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
259	B34R.050.037a	0.375 0.125 0.625	0.375 0.375 0.187	311	0.232 0.124 0.5	36.8	12.3	14.3	18.9	310.5	0.375 0.125 0.375	38.9	24.5	10.7	26.7	33.6	13.5	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
260	B25R.062.050a	0.375 0.125 0.625	0.375 0.375 0.187	307	0.194 0.125 0.625	36.6	12.2	20.9	24.2	300.1	0.375 0.125 0.625	38.1	26.8	29.2	39.7	31.2	14.7	277	0.138	0.0	1.0	31.5	24.4	41.9	48.5	300.1	
261	B25R.062.050a	0.375 0.125 0.625	0.375 0.375 0.187	307	0.194 0.125 0.625	36.6	12.2	20.9	24.2	300.1	0.375 0.125 0.625	38.1	26.8	29.2	39.7	31.2	14.7	277	0.138	0.0	1.0	31.5	24.4	41.9	48.5	300.1	
262	B19R.075.062a	0.375 0.125 0.875	0.375 0.375 0.187	293	0.15 0.125 0.75	38.1	11.9	27.4	29.9	293.5	0.375 0.125 0.75	39.9	26.8	29.2	39.7	31.2	15.1	277	0.04	0.0	1.0	32.2	19.1	43.9	47.8	293.5	
263	B19R.075.062a	0.375 0.125 0.875	0.375 0.375 0.187	293	0.15 0.125 0.75	38.1	11.9	27.4	29.9	293.5	0.375 0.125 0.75	39.9	26.8	29.2	39.7	31.2	15.1	277	0.04	0.0	1.0	32.2	19.1	43.9	47.8	293.5	
264	B15R.087.075a	0.375 0.125 0.875	0.375 0.375 0.187	285	0.125 0.135 0.875	39.6	12.0	33.8	35.7	288.7	0.375 0.125 0.875	36.6	33.1	35.8	48.7	31.2	21.3	269	0.0014	0.0	1.0	32.8	16.1	44.8	47.8	288.7	
265	B15R.087.075a	0.375 0.125 0.875	0.375 0.375 0.187	285	0.125 0.135 0.875	39.6	12.0	33.8	35.7	288.7	0.375 0.125 0.875	36.6	33.1	35.8	48.7	31.2	21.3	269	0.0014	0.0	1.0	32.8	16.1	44.8	47.8	288.7	
266	B13R.100.087a	0.375 0.125 1.0	0.375 0.375 0.187	286	0.10 0.125 1.0	41.3	12.0	39.8	41.6	286.9	0.375 0.125 1.0	36.6	31.2	36.3	36.3	89.4	14.4	57	0.0052	0.0	1.0	33.6	13.8	46.5	47.8	286.9	
267	B13R.100.087a	0.375 0.125 1.0	0.375 0.375 0.187	286	0.10 0.125 1.0	41.3	12.0	39.8	41.6	286.9	0.375 0.125 1.0	36.6	31.2	36.3	36.3	89.4	14.4	57	0.0052	0.0	1.0	33.6	13.8	46.5	47.8	286.9	
268	R69Y.037.037a	0.375 0.25 0.0	0.375 0.375 0.187	61	0.375 0.175 0.0	40.7	8.3	24.3	25.7	17.1	0.375 0.25 0.0	41.9	30.3	32.3	32.3	84.9	10.9	48	1.0	0.466	0.0	68.8	22.1	68.9	68.5	71.1	
269	R69Y.037.037a	0.375 0.25 0.0	0.375 0.375 0.187	61	0.375 0.175 0.0	40.7	8.3	24.3	25.7	17.1	0.375 0.25 0.0	41.9	30.3	32.3	32.3	84.9	10.9	48	1.0	0.466	0.0	68.8	22.1	68.9	68.5	71.1	
270	R50Y.037.025a	0.375 0.25 0.125	0.375 0.375 0.187	70	0.375 0.204 0.124	42.3	8.8	14.6	17.0	58.8	0.375 0.25 0.125	46.0	19.9	22.4	22.4	89.4	10.9	48	1.0	0.319	0.0	61.9	35.2	58.4	68.2	58.8	
271	R50Y.037.025a	0.375 0.25 0.125	0.375 0.375 0.187	70	0.375 0.204 0.124	42.3	8.8	14.6	17.0	58.8	0.375 0.25 0.125	46.0	19.9	22.4	22.4	89.4	10.9	48	1.0	0.319	0.0	61.9	35.2	58.4	68.2	58.8	
272	R00Y.037.012a	0.375 0.25 0.375	0.375 0.375 0.187	330	0.323 0.249 0.375	43.6	5.8	3.3	7.7	25.5	0.375 0.25 0.375	44.2	8.2	6.2	10.3	37.2	8.6	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
273	R00Y.037.012a	0.375 0.25 0.375	0.375 0.375 0.187	330	0.323 0.249 0.375	43.6	5.8	3.3	7.7	25.5	0.375 0.25 0.375	44.2	8.2	6.2	10.3	37.2	8.6	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
274	B25R.062.037a	0.375 0.25 0.5	0.375 0.375 0.187	300	0.284 0.249 0.5	43.7	6.1	10.4	12.1	300.1	0.375 0.25 0.5	43.9	14.6	12.6	15.4	32.8	8.6	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
275	B25R.062.037a	0.375 0.25 0.5	0.375 0.375 0.187	300	0.284 0.249 0.5	43.7	6.1	10.4	12.1	300.1	0.375 0.25 0.5	43.9	14.6	12.6	15.4	32.8	8.6	305	0.584	0.0	1.0	38.5	46.7	28.5	54.7	328.6	
276	B19R.075.062a	0.375 0.25 0.75	0.375 0.375 0.187	289	0.25 0.255 0.625	45.2																					

n	HIC-Fe	rgb-Fe	icL-Fe	hsa-Fe	rgb*Fe	LabCh*Fe	LabCh**Fe	rgb**Fe	DF**Fe	hsa**Fe	LabCh**Fe	LabCh***Fe												
486	R00Y, 0.75, 0.75	0.75	0.0	0.197	41.6	42.0	20.0	46.5	25.4	46.5	0.0	39.7	47.0	37.5	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4		
487	R35Y, 0.75, 0.75	0.75	0.0	0.317	41.6	43.0	11.9	45.0	15.4	45.0	0.0	0.125	39.7	46.5	37.5	1.0	0.0	0.263	47.5	57.8	15.9	60.1	15.4	
488	R10Y, 0.75, 0.75	0.75	0.0	0.441	41.9	45.8	3.4	45.9	4.3	45.9	0.0	0.25	39.4	47.0	37.5	1.0	0.0	0.588	47.9	61.1	46.2	61.2	4.3	
489	R00Y, 0.75, 0.75	0.75	0.0	0.661	43.0	49.1	-6.8	49.6	35.0	49.6	0.0	0.375	39.3	48.8	40.0	0.0	0.0	0.588	47.9	61.1	46.2	61.2	35.0	
490	B65R, 0.75, 0.75	0.75	0.0	0.75	41.2	47.2	-11.0	48.5	33.1	47.2	0.0	0.5	39.5	52.9	51.1	0.0	0.0	0.941	0.0	1.0	47.0	63.0	44.9	34.7
491	B57R, 0.75, 0.75	0.75	0.0	0.75	36.9	40.4	-17.0	43.8	33.1	40.4	0.0	0.625	39.9	55.3	-11.1	0.0	0.0	0.941	0.0	1.0	41.3	53.8	-22.7	58.4
492	B43R, 0.75, 0.75	0.75	0.0	0.75	34.8	35.0	-21.4	41.0	32.6	35.0	0.0	0.75	41.0	54.2	-16.4	0.0	0.0	0.584	0.0	1.0	38.5	46.7	-28.5	54.7
493	B43R, 0.75, 0.75	0.75	0.0	0.875	34.8	35.0	-21.4	41.0	32.6	35.0	0.0	0.875	42.0	54.2	-21.0	0.0	0.0	0.584	0.0	1.0	35.7	40.8	-33.0	52.4
494	B38R, 1.00, 1.00	0.75	0.0	1.0	33.5	36.5	-36.1	41.0	31.5	31.5	0.0	1.0	41.8	55.1	-21.4	0.0	0.0	0.347	0.0	1.0	33.5	36.5	-36.1	51.4
495	R15Y, 0.75, 0.75	0.75	0.0	0.125	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.125	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
496	R00Y, 0.75, 0.62	0.75	0.0	0.25	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.25	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
497	R00Y, 0.75, 0.62	0.75	0.0	0.375	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.375	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
498	R11Y, 0.75, 0.62	0.75	0.0	0.5	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.5	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
499	B69R, 0.75, 0.62	0.75	0.0	0.625	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.625	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
500	B59R, 0.75, 0.62	0.75	0.0	0.75	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.75	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
501	B59R, 0.75, 0.62	0.75	0.0	0.875	42.0	42.4	42.5	30.3	52.2	35.4	0.0	0.875	42.0	42.4	40.8	0.0	0.0	0.028	0.0	1.0	33.5	36.5	-36.1	51.4
502	B42R, 0.75, 0.62	0.75	0.0	1.0	40.7	40.7	-32.4	44.6	31.4	31.4	0.0	1.0	40.7	50.7	-22.1	0.0	0.0	0.347	0.0	1.0	32.9	35.0	-37.0	51.4
503	B36R, 1.00, 0.87	0.75	0.0	1.0	38.9	39.0	-32.4	44.6	31.4	31.4	0.0	1.0	38.9	41.6	-22.1	0.0	0.0	0.347	0.0	1.0	32.9	35.0	-37.0	51.4
504	R11Y, 0.75, 0.75	0.75	0.0	0.125	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.125	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
505	R11Y, 0.75, 0.75	0.75	0.0	0.25	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.25	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
506	R26Y, 0.75, 0.90	0.75	0.0	0.375	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.375	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
507	R26Y, 0.75, 0.90	0.75	0.0	0.5	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.5	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
508	R01R, 0.75, 0.90	0.75	0.0	0.625	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.625	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
509	R01R, 0.75, 0.90	0.75	0.0	0.75	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.75	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
510	B30R, 0.75, 0.90	0.75	0.0	0.875	40.7	40.7	38.9	39.0	53.7	46.8	0.0	0.875	40.7	40.7	37.5	1.0	0.0	0.177	0.0	1.0	49.7	56.0	42.3	70.8
511	B40R, 0.75, 0.75	0.75	0.0	1.0	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	1.0	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
512	B40R, 0.75, 0.75	0.75	0.0	1.0	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	1.0	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
513	R33Y, 0.75, 0.75	0.75	0.0	0.125	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.125	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
514	R33Y, 0.75, 0.75	0.75	0.0	0.25	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.25	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
515	R33Y, 0.75, 0.75	0.75	0.0	0.375	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.375	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
516	R18Y, 0.75, 0.75	0.75	0.0	0.5	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.5	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
517	R18Y, 0.75, 0.75	0.75	0.0	0.625	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.625	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
518	R18Y, 0.75, 0.75	0.75	0.0	0.75	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.75	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
519	B65R, 0.75, 0.75	0.75	0.0	0.875	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.875	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
520	B38R, 0.75, 0.75	0.75	0.0	1.0	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	1.0	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
521	B30R, 1.00, 0.62	0.75	0.0	1.0	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	1.0	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
522	R68Y, 0.75, 0.75	0.75	0.0	0.125	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.125	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
523	R68Y, 0.75, 0.75	0.75	0.0	0.25	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.25	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
524	R68Y, 0.75, 0.75	0.75	0.0	0.375	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.375	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
525	R50Y, 0.75, 0.75	0.75	0.0	0.5	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.5	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
526	R31Y, 0.75, 0.75	0.75	0.0	0.625	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.625	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
527	R00Y, 0.75, 0.75	0.75	0.0	0.75	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.75	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59.9
528	B50R, 0.75, 0.75	0.75	0.0	0.875	38.9	41.6	-28.7	37.4	31.3	31.3	0.0	0.875	38.9	41.6	-22.1	0.0	0.0	0.082	0.0	1.0	65.2	59.9	10.2	59



TUB material: code=rha4ta
cmyn6 (CMYK)

input: *rgb/cmyk* $\rightarrow$ *rgb_e*
output: transfer to *cmyk_e*

TTUB-test chart QE29; hue code: $H^*_e=R75Y_e$
 colors and differences, ΔE^* ,

n	HIC-Fe	rgb^*Fe	lcr^*Fe	h_{Δ}^*Fe	rgb^*Fe	$LabCh^*Fe$	$LabCh^*Fe$	rgb^*Fe	$LabCh^*Fe$	DF^*Fe	h_{Δ}^*Fe	rgb^*Fe	$LabCh^*Fe$														
567	R00Y_087_087e	0.875	0.0	0.875	0.875	0.437	390	23.3	54.3	25.4	16.5	0.875	0.0	43.6	51.3	31.6	8.6	375	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4	
568	R36Y_087_087e	0.875	0.0	0.875	0.875	0.437	382	50.3	54.5	52.5	16.5	0.875	0.0	43.6	51.3	26.3	27.3	57.5	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
569	R23Y_087_087e	0.875	0.0	0.875	0.875	0.437	374	52.4	70.9	52.9	7.6	0.875	0.0	43.6	51.3	20.1	55.1	21.4	1.0	0.0	0.635	47.8	59.9	8.0	60.4	7.6	
570	R08Y_087_087e	0.875	0.0	0.875	0.875	0.437	365	55.5	55.6	55.6	357.6	0.875	0.0	43.6	51.3	10.6	54.2	11.3	1.0	0.0	0.396	48.7	63.4	-2.6	63.5	357.6	
571	R70R_087_087e	0.875	0.0	0.875	0.875	0.437	355	57.2	57.7	57.8	352.3	0.875	0.0	43.6	51.3	1.4	55.6	1.4	1.0	0.0	0.818	49.4	65.4	-8.8	66.0	352.3	
572	B63R_087_087e	0.875	0.0	0.875	0.875	0.437	346	58.2	58.2	58.2	343.7	0.875	0.0	43.6	51.3	9.6	33.9	9.6	0.0	0.0	0.818	49.4	65.4	-8.8	66.0	343.7	
573	B36R_087_087e	0.875	0.0	0.875	0.875	0.437	338	62.1	62.1	62.1	336.1	0.875	0.0	43.6	51.3	6.7	62.1	6.7	0.0	0.0	0.818	49.4	65.4	-8.8	66.0	336.1	
574	B56R_087_087e	0.875	0.0	0.875	0.875	0.437	330	64.9	64.9	64.9	328.6	0.875	0.0	43.6	51.3	17.0	62.1	17.0	0.0	0.0	0.818	49.4	65.4	-8.8	66.0	328.6	
575	B50R_087_087e	0.875	0.0	0.875	0.875	0.437	330	64.9	64.9	64.9	328.6	0.875	0.0	43.6	51.3	17.0	62.1	17.0	0.0	0.0	0.818	49.4	65.4	-8.8	66.0	328.6	
576	B44R_100_100e	0.875	0.0	0.875	0.875	0.437	330	64.9	64.9	64.9	328.6	0.875	0.0	43.6	51.3	17.0	62.1	17.0	0.0	0.0	0.818	49.4	65.4	-8.8	66.0	328.6	
577	R13Y_087_087e	0.875	0.0	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.0	43.6	51.3	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
578	R00Y_087_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
579	R35Y_087_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
580	R18Y_087_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
581	R65R_087_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
582	B57R_087_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
583	B43R_100_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
584	B43R_100_075e	0.875	0.125	0.875	0.875	0.437	38	49.8	49.8	49.8	34.3	0.875	0.125	0.875	0.875	42.8	13.4	42.8	1.0	0.0	0.012	0.0	48.0	57.0	39.0	69.1	34.3
585	R16Y_087_075e	0.875	0.25	0.875	0.875	0.437	36	46.6	46.6	46.6	36.6	0.875	0.25	0.875	0.875	46.6	16.6	46.6	1.0	0.0	0.088	47.9	61.1	46.6	61.1	46.6	
586	R16Y_087_075e	0.875	0.25	0.875	0.875	0.437	36	46.6	46.6	46.6	36.6	0.875	0.25	0.875	0.875	46.6	16.6	46.6	1.0	0.0	0.088	47.9	61.1	46.6	61.1	46.6	
587	R00Y_087_062e	0.875	0.0	0.875	0.875	0.437	379	50.3	54.5	52.5	16.5	0.875	0.0	43.6	51.3	26.3	27.3	57.5	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
588	R11Y_087_062e	0.875	0.0	0.875	0.875	0.437	379	50.3	54.5	52.5	16.5	0.875	0.0	43.6	51.3	26.3	27.3	57.5	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
589	R11Y_087_062e	0.875	0.0	0.875	0.875	0.437	379	50.3	54.5	52.5	16.5	0.875	0.0	43.6	51.3	26.3	27.3	57.5	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
590	R00Y_087_062e	0.875	0.0	0.875	0.875	0.437	379	50.3	54.5	52.5	16.5	0.875	0.0	43.6	51.3	26.3	27.3	57.5	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
591	B50R_087_062e	0.875	0.25	0.875	0.875	0.437	353	53.1	53.1	53.1	353.1	0.875	0.25	0.875	0.875	353.1	16.5	353.1	1.0	0.0	0.659	49.3	62.6	-11.1	62.6	353.1	
592	B50R_087_062e	0.875	0.25	0.875	0.875	0.437	353	53.1	53.1	53.1	353.1	0.875	0.25	0.875	0.875	353.1	16.5	353.1	1.0	0.0	0.659	49.3	62.6	-11.1	62.6	353.1	
593	B42R_100_075e	0.875	0.25	0.875	0.875	0.437	353	53.1	53.1	53.1	353.1	0.875	0.25	0.875	0.875	353.1	16.5	353.1	1.0	0.0	0.659	49.3	62.6	-11.1	62.6	353.1	
594	R41Y_087_075e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
595	R41Y_087_075e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
596	R18Y_087_062e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
597	R00Y_087_050e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
598	R26Y_087_050e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
599	R00Y_087_050e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
600	B61R_087_050e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
601	B61R_087_050e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
602	B40R_100_062e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
603	B40R_100_062e	0.875	0.375	0.875	0.875	0.437	55	49	49	49	49	0.875	0.375	0.875	0.875	49	16.5	49	1.0	0.0	0.255	0.0	58.5	49.1	55.4	69.1	53.3
604	R58Y_087_062e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
605	R58Y_087_062e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
606	R50Y_087_075e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
607	R38Y_087_062e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
608	R38Y_087_062e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
609	R23Y_087_050e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
610	R23Y_087_050e	0.875	0.5	0.875	0.875	0.437	65	60	60	60	60	0.875	0.5	0.875	0.875	60	16.5	60	1.0	0.0	0.384	0.0	65.0	29.0	60.9	67.5	64.4
611	R00Y_087_037e	0.875	0.5	0.875	0.875	0.437	390	23.3	54.3	25.4	16.5	0.875	0.5	0.875	0.875	390	23.3	54.3	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
612	R18Y_087_037e	0.875	0.5	0.875	0.875	0.437	390	23.3	54.3	25.4	16.5	0.875	0.5	0.875	0.875	390	23.3	54.3	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
613	R18Y_087_037e	0.875	0.5	0.875	0.875	0.437	390	23.3	54.3	25.4	16.5	0.875	0.5	0.875	0.875	390	23.3	54.3	1.0	0.0	0.408	47.5	57.5	17.1	60.0	16.5	
614	B38R_100_050e	0.875	0.5	0.875	0.875	0.437	390	23.3																			

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

[illegible]

QE290-7N, Page 28/33-F

TUB-test chart QE29; hue code: $H_e^* = R75Y_e$

input: *rgb/cmyk* -> *rgb*_e
output: transfer to *cmyk*_e

Mean color difference of this page:

http://130.149.60.45/~farbmatrik/QE29/QE29L0NP.PDF /P.S; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 31/33

TUB-test chart QE29; hue code: $H^*_e=R75Y_e$
colors and differences, ΔE^* ,

input: *rgb/cmyk* → *rgbe*
output: transfer to *cmyk_e*

see similar files: <http://130.149.60.45/~farbmatrik/QE29/QE29.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

[illegible]

n	HC*Fe	rgb*Fe	icL*Fe	hsa*Fe	rgb*Fe	LabCh*Fe	LabCh*Fe	rgb*Fe	DF*Fe	hsa*Fe	rgb*Fe	LabCh*Fe
972	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
973	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
974	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
975	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
976	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
977	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
978	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
979	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
980	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
981	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
982	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
983	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
984	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
985	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
986	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
987	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
988	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
989	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
990	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
991	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
992	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
993	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
994	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
995	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
996	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
997	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
998	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
999	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1000	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1001	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1002	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1003	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1004	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1005	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1006	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1007	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1008	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1009	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1010	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1011	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1012	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1013	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1014	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1015	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1016	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1017	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1018	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1019	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1020	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1021	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1022	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1023	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1024	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1025	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1026	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1027	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1028	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1029	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1030	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1031	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1032	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1033	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1034	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1035	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1036	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1037	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1038	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1039	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1040	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1041	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1042	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1043	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1044	NW 000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1045	NW 012e	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1046	NW 025e	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1047	NW 037e	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1048	NW 050e	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1049	NW 062e	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1050	NW 075e	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1051	NW 087e	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1052	NW 100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Mean color difference of this page:

delta E* = 3.2

TUB-test chart QE29; hue code: H*_e=R75Y_e
colors and differences, ΔE*

input: rgb/cmyk -> rgbe
output: transfer to cmyke

TUB registration: 20130201-QE29/QE29L0NP.PDF /.PS
application for measurement of laser printer output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

n	HC*Fe	rgb_Fe	LabCh*Fe	rgb_Fe	LabCh*Fe	rgb_Fe	LabCh*Fe	DF*Fe	haM_e	rgb*Me	LabCh*Me	DF*Me	haM_e	rgb*Me	LabCh*Me	DF*Me	haM_e
1053	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
1054	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
1055	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1056	NW_000e	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
1057	NW_006e	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
1058	NW_013e	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
1059	NW_020e	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1060	NW_026e	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266
1061	NW_033e	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
1062	NW_040e	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1063	NW_046e	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466
1064	NW_053e	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533
1065	NW_060e	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1066	NW_066e	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
1067	NW_073e	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734
1068	NW_080e	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1069	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
1070	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
1071	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1072	NW_000e	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
1073	NW_006e	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
1074	ROY_100_100e	1.0	0.0	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	0.0
1075	G50B_100_100e	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1076	Y06B_100_100e	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1077	B06B_100_100e	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1078	B00B_100_100e	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1079	B50B_100_100e	0.584	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

Mean color difference of this page:

delta E* = 6.3

input: rgb/cmyk -> rgbe
output: transfer to cmyke

TUB-test chart QE29; hue code: H*e=R75Ye
colors and differences, ΔE*

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