

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 353/360 = 0.98$

$H^*_ = B50R_-$

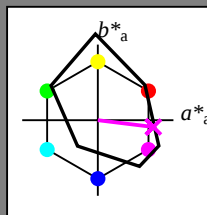
Data for any device (d) or elementary (e) colour:

$HIC^*_$

hue text for the colours of this page:

$H^*_ = B50R_-$

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):

$LabCh^*_{-,Ma}$: 49 73 -9 74 353

$HIC^*_{-,Ma}$: B50R_100_100_

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

1.0 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

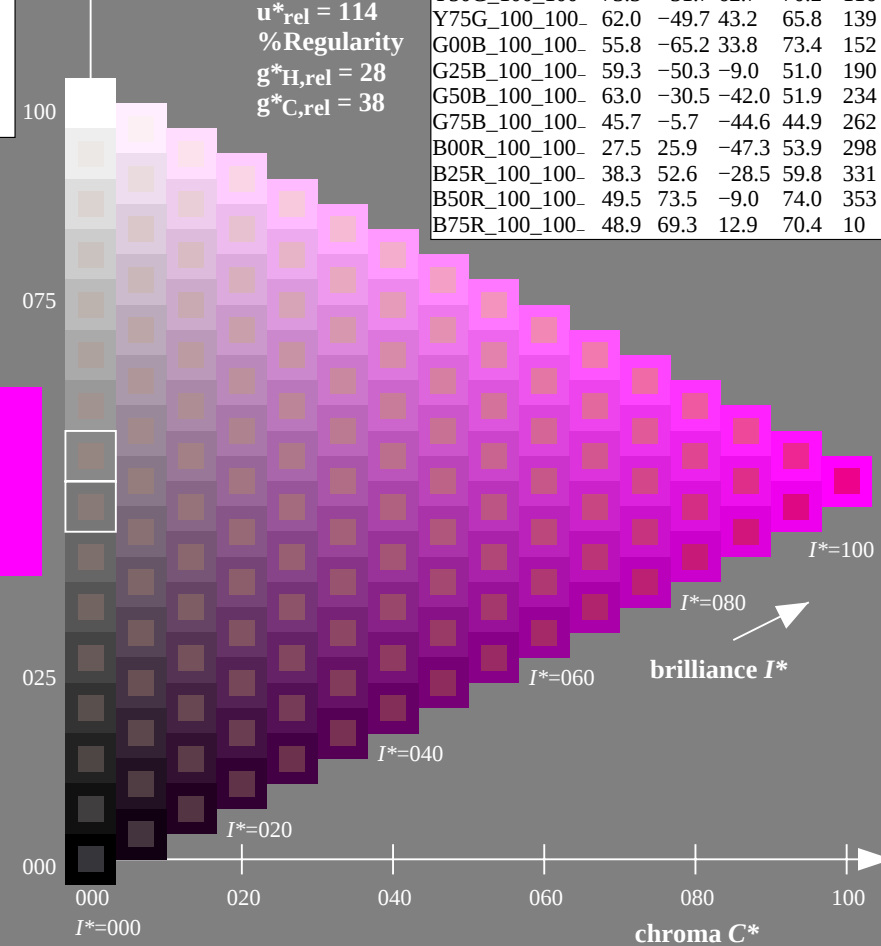
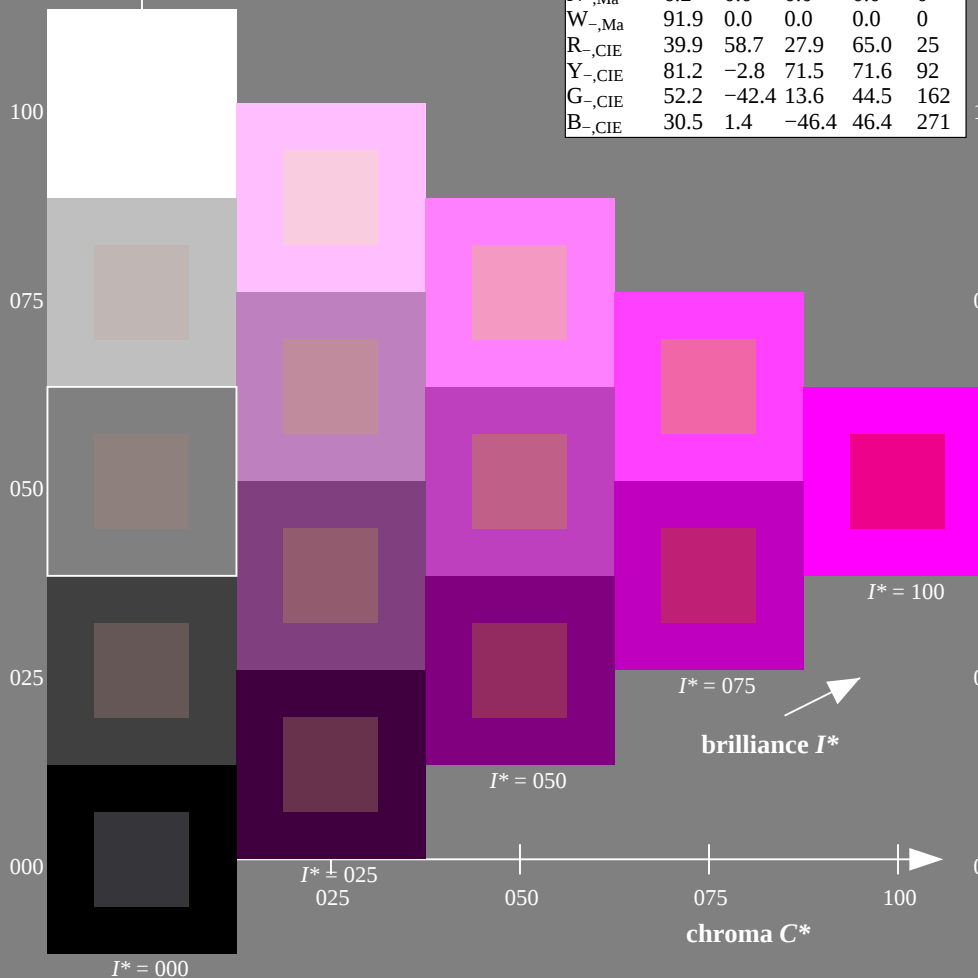
% Regularity

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

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

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 RE39; hue code: $H^*_ = B50R_-$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output

TUB material: code=rha4ta

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 348/360 = 0.96$

$H^*_d = B50R_d$

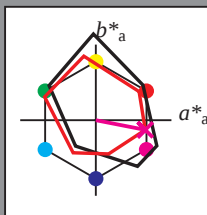
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = B50R_d$

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):

$LabCh^*_{d,Ma}$: 48 65 -12 66 348

$HIC^*_{d,Ma}$: B50R_100_100_d

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

1.0 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

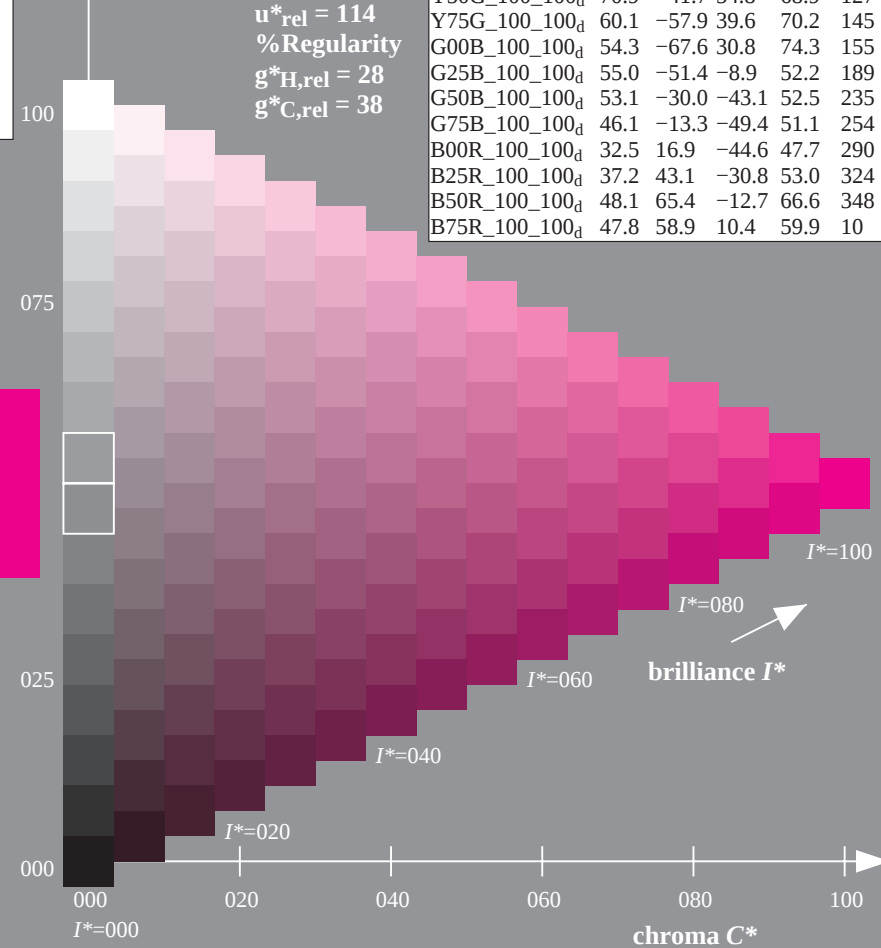
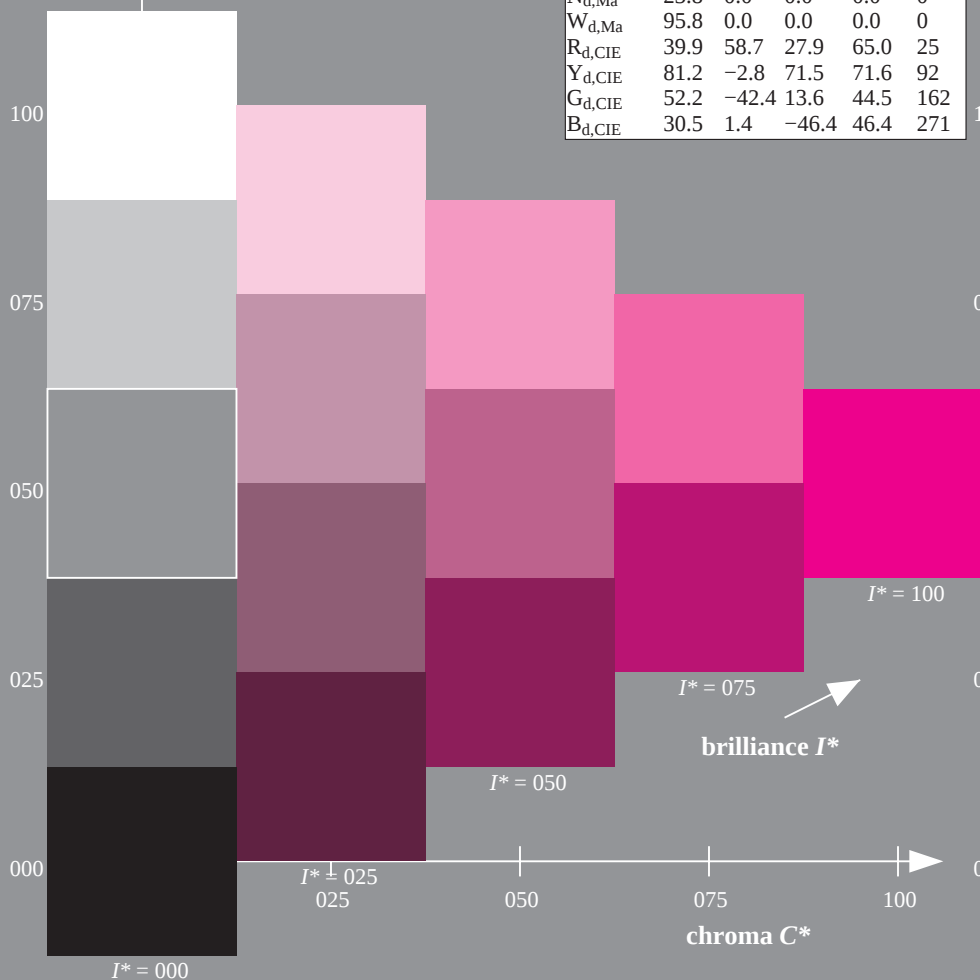
% Regularity

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

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

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

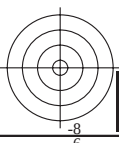
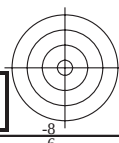
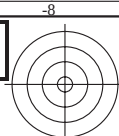


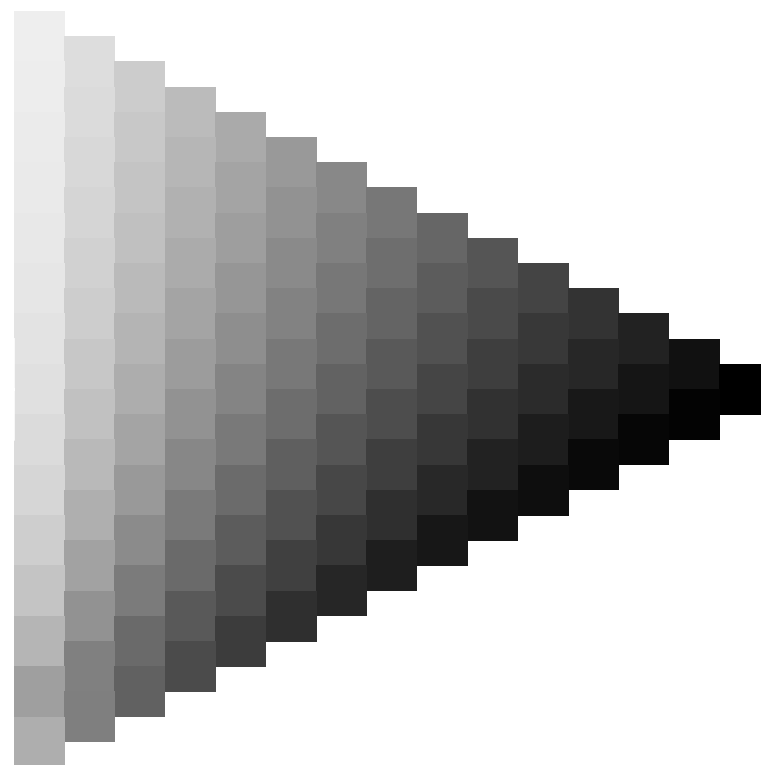
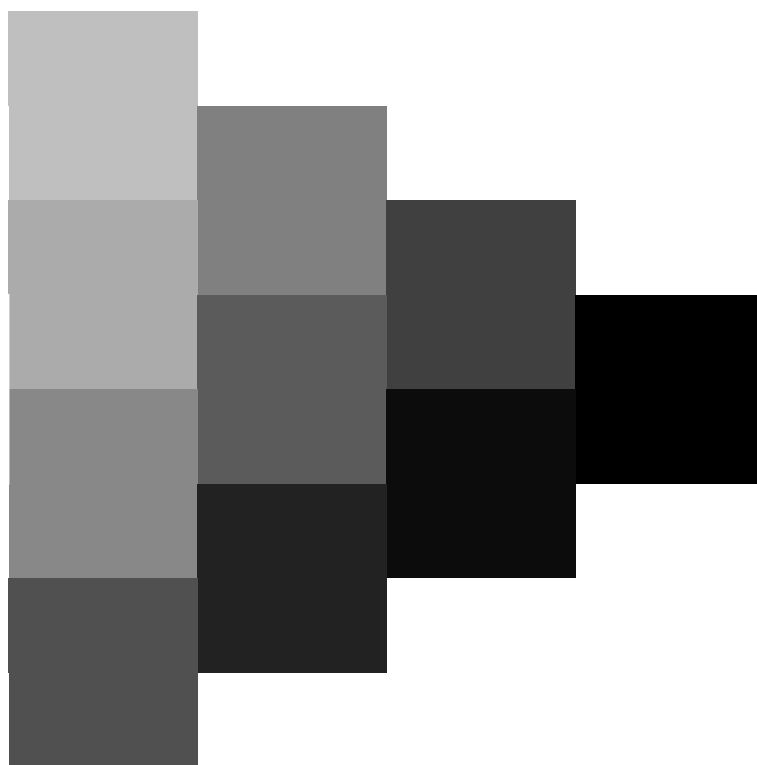
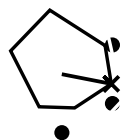
TUB-test chart RE39; hue code: $H^*_d=B50R_d$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

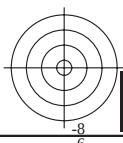
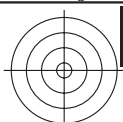
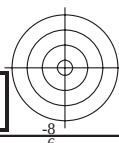
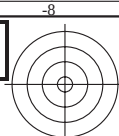
input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmyk_d$

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output, separation cmyk6 (CMYK)

TUB material: code=rha4ta







Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 348/360 = 0.96$

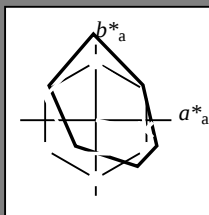
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = B50R_d$

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):

$LabCh^*_{d,Ma}$: 48 65 -12 66 348

$HIC^*_{d,Ma}$: B50R_100_100_d

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

1.0 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

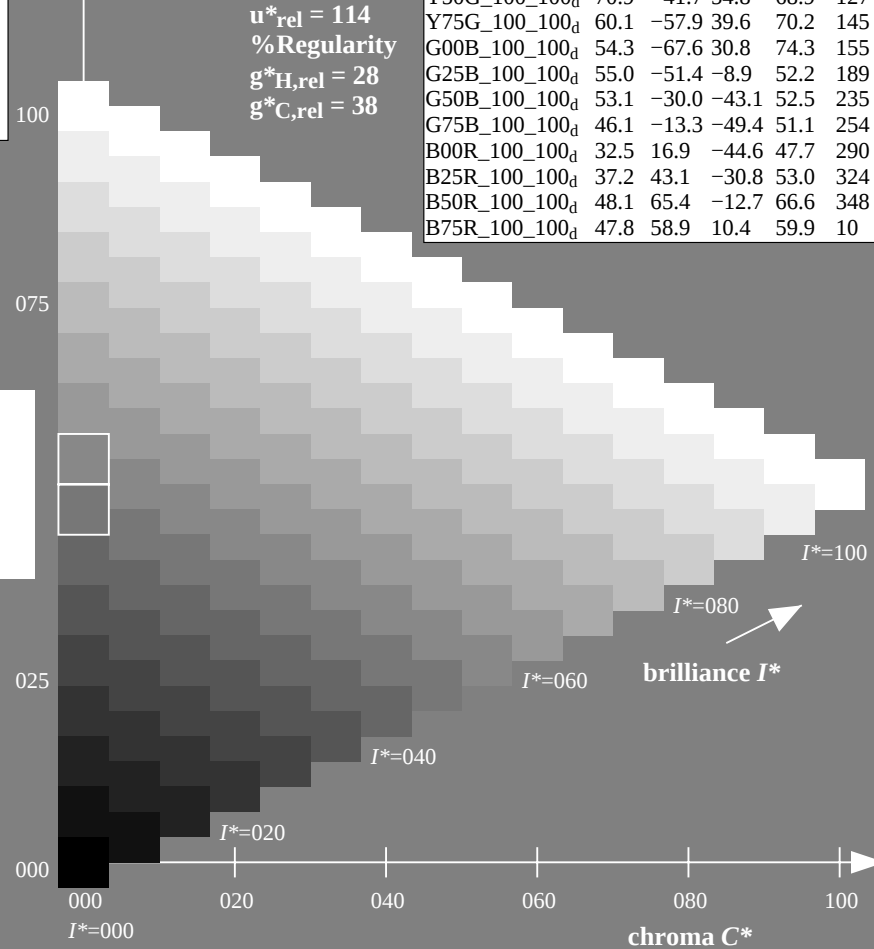
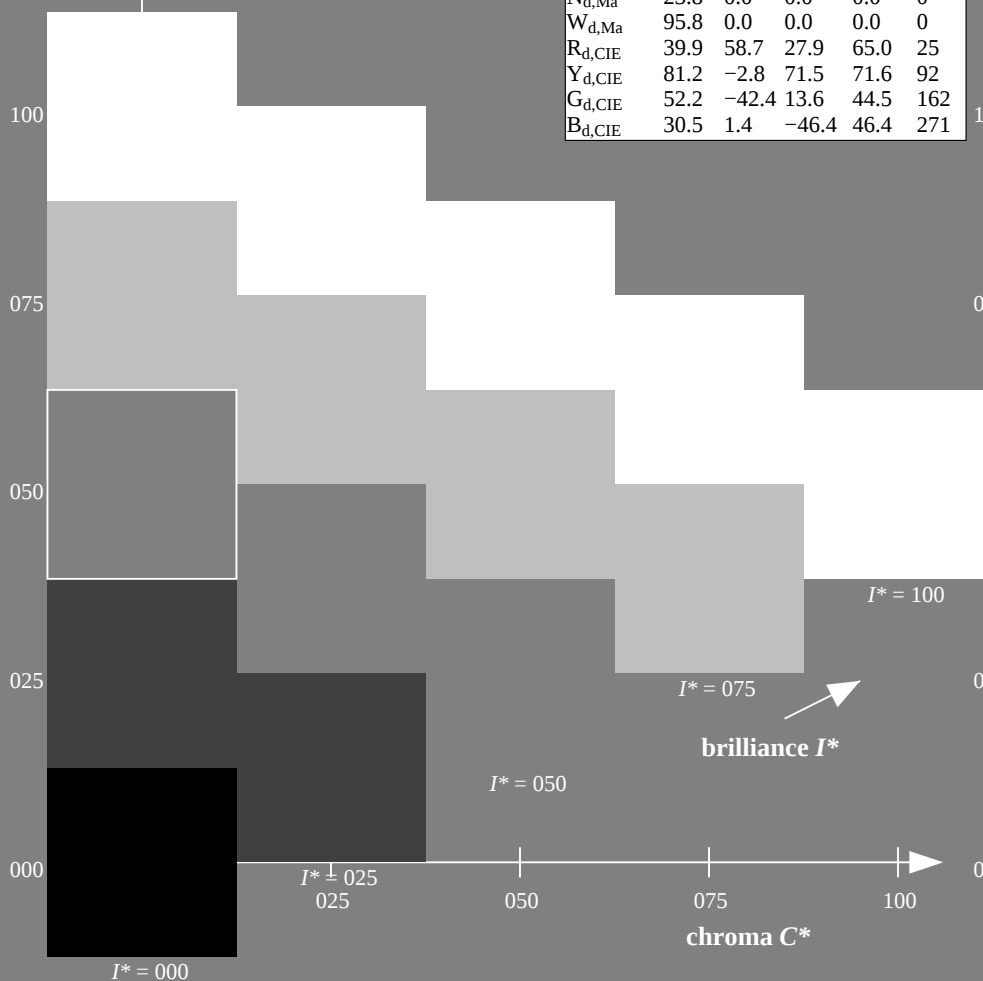
% Regularity

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

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

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



1-003530-L0 RE390-70

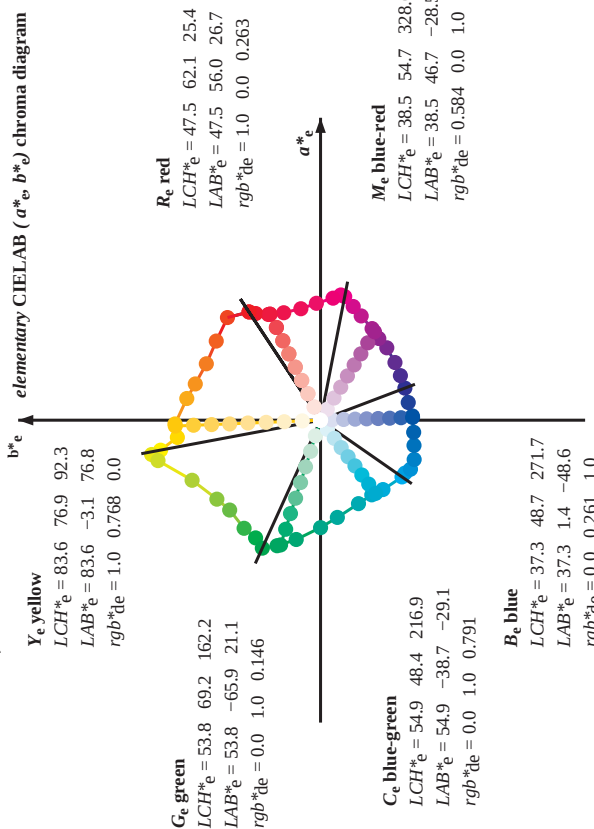
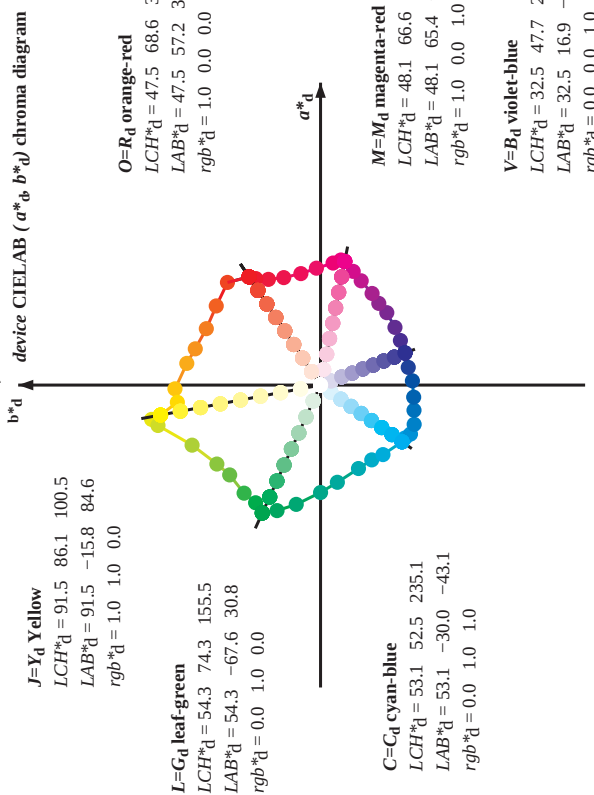
TUB-test chart RE39; hue code: $H^*_d=B50R_d$

Test chart according to DIN 33872, 3D=0, de=0, cmyk

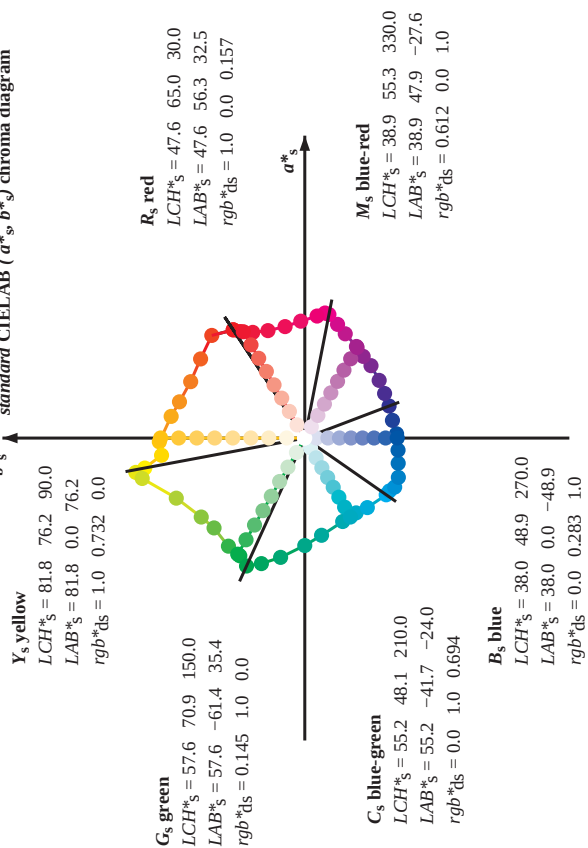
input: $rgb/cmyk \rightarrow rgb_d$

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 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)

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

$$h_{ab,s} = \arctan \left[\frac{r^*_d \cos(30) + g^*_d \sin(150)}{1 / r^*_d \sin(30) + b^*_d \sin(270)} \right] \quad (1)$$
3. 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:

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

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$
4. 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:

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

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$
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.
6. 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 RE39; hue code: H*_d=B50Rd
48 step hue circles; $rgb-LabCh^*$ tables

<http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT> /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 8/33

[illegible][illegible]

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

TUB-test chart RE39; hue code: H^{*}_d=B50R_d
LAB*a0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9,
RE390-70
48 step hue circles: *rgb-LabCh**tables

Output: Laser printer output; separation cmyn6*, D65 page 8/33

AB*_{nw}=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

33.4	30.0	33.4	1.0	0.0	0.0
1-003730-L0					

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; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$ -268 75	$h_{ab,s}$ 75	$h_{ab,e}$ 75	rgb^*_{ds361M} 1.0 0.75 0.0	rgb^*_{ds361M} 1.0 0.521 0.0	$LAB^*_{ds361M}(x=LabCh)$ 71.3 18.0 67.1	rgb^*_{ds361M} 1.0 0.75 0.0	rgb^*_{ds361M} 1.0 0.532 0.0	$LAB^*_{ds361M}(x=LabCh)$ 71.6 17.3 67.5	rgb^*_{ds361M} 1.0 0.75 0.0	rgb^*_{ds361M} 1.0 0.532 0.0	$LAB^*_{ds361M}(x=LabCh)$ 71.6 17.3 67.5	rgb^*_{ds361M} 1.0 0.75 0.0
92	76	76	1.0 0.766 0.0	83.5 -2.9 76.8	76.9 92	1.0 0.766 0.0	83.5 -2.9 76.8	76.9 92	1.0 0.766 0.0	83.5 -2.9 76.8	76.9 92	1.0 0.766 0.0
92	77	77	1.0 0.783 0.0	84.2 -3.9 76.7	76.8 92	1.0 0.783 0.0	84.2 -3.9 76.7	76.8 92	1.0 0.783 0.0	84.2 -3.9 76.7	76.8 92	1.0 0.783 0.0
93	78	78	1.0 0.800 0.0	84.8 -4.8 76.5	76.7 93	1.0 0.800 0.0	84.8 -4.8 76.5	76.7 93	1.0 0.800 0.0	84.8 -4.8 76.5	76.7 93	1.0 0.800 0.0
94	79	80	1.0 0.816 0.0	85.4 -5.8 76.4	76.6 94	1.0 0.816 0.0	85.4 -5.8 76.4	76.6 94	1.0 0.816 0.0	85.4 -5.8 76.4	76.6 94	1.0 0.816 0.0
95	80	81	1.0 0.833 0.0	86.0 -6.7 76.2	76.5 95	1.0 0.833 0.0	86.0 -6.7 76.2	76.5 95	1.0 0.833 0.0	86.0 -6.7 76.2	76.5 95	1.0 0.833 0.0
95	81	82	1.0 0.850 0.0	86.6 -7.6 76.0	76.4 95	1.0 0.850 0.0	86.6 -7.6 76.0	76.4 95	1.0 0.850 0.0	86.6 -7.6 76.0	76.4 95	1.0 0.850 0.0
96	82	83	1.0 0.866 0.0	87.3 -8.6 75.8	76.3 96	1.0 0.866 0.0	87.3 -8.6 75.8	76.3 96	1.0 0.866 0.0	87.3 -8.6 75.8	76.3 96	1.0 0.866 0.0
97	83	84	1.0 0.883 0.0	87.8 -9.4 76.3	76.9 97	1.0 0.883 0.0	87.8 -9.4 76.3	76.9 97	1.0 0.883 0.0	87.8 -9.4 76.3	76.9 97	1.0 0.883 0.0
97	84	85	1.0 0.900 0.0	88.4 -10.3 77.8	78.2 97	1.0 0.900 0.0	88.4 -10.3 77.8	78.2 97	1.0 0.900 0.0	88.4 -10.3 77.8	78.2 97	1.0 0.900 0.0
98	85	86	1.0 0.916 0.0	88.9 -11.2 78.6	78.6 98	1.0 0.916 0.0	88.9 -11.2 78.6	78.6 98	1.0 0.916 0.0	88.9 -11.2 78.6	78.6 98	1.0 0.916 0.0
98	86	87	1.0 0.933 0.0	89.4 -12.0 80.0	80.9 98	1.0 0.933 0.0	89.4 -12.0 80.0	80.9 98	1.0 0.933 0.0	89.4 -12.0 80.0	80.9 98	1.0 0.933 0.0
99	87	88	1.0 0.950 0.0	89.9 -12.9 81.1	82.2 99	1.0 0.950 0.0	89.9 -12.9 81.1	82.2 99	1.0 0.950 0.0	89.9 -12.9 81.1	82.2 99	1.0 0.950 0.0
99	88	90	1.0 0.966 0.0	90.5 -13.9 82.3	83.5 99	1.0 0.966 0.0	90.5 -13.9 82.3	83.5 99	1.0 0.966 0.0	90.5 -13.9 82.3	83.5 99	1.0 0.966 0.0
100	89	91	1.0 0.983 0.0	91.0 -14.8 83.5	84.8 100	1.0 0.983 0.0	91.0 -14.8 83.5	84.8 100	1.0 0.983 0.0	91.0 -14.8 83.5	84.8 100	1.0 0.983 0.0
100	90	92	1.0 1.0 0.0	91.5 -15.8 84.6	86.1 100	1.0 1.0 0.0	91.5 -15.8 84.6	86.1 100	1.0 1.0 0.0	91.5 -15.8 84.6	86.1 100	1.0 1.0 0.0
100	91	93	0.983 1.0 0.0	91.7 -16.1 85.3	86.8 100	0.983 1.0 0.0	91.7 -16.1 85.3	86.8 100	0.983 1.0 0.0	91.7 -16.1 85.3	86.8 100	0.983 1.0 0.0
100	92	94	0.966 1.0 0.0	91.9 -16.4 85.9	87.5 100	0.966 1.0 0.0	91.9 -16.4 85.9	87.5 100	0.966 1.0 0.0	91.9 -16.4 85.9	87.5 100	0.966 1.0 0.0
100	93	95	0.950 1.0 0.0	92.0 -16.7 86.5	88.2 100	0.950 1.0 0.0	92.0 -16.7 86.5	88.2 100	0.950 1.0 0.0	92.0 -16.7 86.5	88.2 100	0.950 1.0 0.0
101	94	96	0.933 1.0 0.0	92.2 -17.0 87.2	88.8 101	0.933 1.0 0.0	92.2 -17.0 87.2	88.8 101	0.933 1.0 0.0	92.2 -17.0 87.2	88.8 101	0.933 1.0 0.0
101	95	98	0.916 1.0 0.0	92.4 -17.3 87.8	89.5 101	0.916 1.0 0.0	92.4 -17.3 87.8	89.5 101	0.916 1.0 0.0	92.4 -17.3 87.8	89.5 101	0.916 1.0 0.0
101	96	99	0.900 1.0 0.0	92.5 -17.6 88.4	90.2 101	0.900 1.0 0.0	92.5 -17.6 88.4	90.2 101	0.900 1.0 0.0	92.5 -17.6 88.4	90.2 101	0.900 1.0 0.0
101	97	100	0.883 1.0 0.0	92.7 -18.0 89.1	90.9 101	0.883 1.0 0.0	92.7 -18.0 89.1	90.9 101	0.883 1.0 0.0	92.7 -18.0 89.1	90.9 101	0.883 1.0 0.0
101	98	101	0.866 1.0 0.0	92.6 -18.3 89.2	91.0 101	0.866 1.0 0.0	92.6 -18.3 89.2	91.0 101	0.866 1.0 0.0	92.6 -18.3 89.2	91.0 101	0.866 1.0 0.0
101	99	102	0.850 1.0 0.0	92.2 -18.8 88.7	90.7 101	0.850 1.0 0.0	92.2 -18.8 88.7	90.7 101	0.850 1.0 0.0	92.2 -18.8 88.7	90.7 101	0.850 1.0 0.0
102	100	103	0.833 1.0 0.0	91.9 -19.2 88.3	90.3 102	0.833 1.0 0.0	91.9 -19.2 88.3	90.3 102	0.833 1.0 0.0	91.9 -19.2 88.3	90.3 102	0.833 1.0 0.0
102	101	105	0.816 1.0 0.0	91.5 -19.6 87.8	90.0 102	0.816 1.0 0.0	91.5 -19.6 87.8	90.0 102	0.816 1.0 0.0	91.5 -19.6 87.8	90.0 102	0.816 1.0 0.0
102	102	106	0.800 1.0 0.0	91.1 -20.1 87.4	89.7 102	0.800 1.0 0.0	91.1 -20.1 87.4	89.7 102	0.800 1.0 0.0	91.1 -20.1 87.4	89.7 102	0.800 1.0 0.0
102	103	107	0.783 1.0 0.0	90.8 -20.5 86.9	89.3 103	0.783 1.0 0.0	90.8 -20.5 86.9	89.3 103	0.783 1.0 0.0	90.8 -20.5 86.9	89.3 103	0.783 1.0 0.0
103	104	108	0.766 1.0 0.0	90.4 -20.9 86.5	89.0 103	0.766 1.0 0.0	90.4 -20.9 86.5	89.0 103	0.766 1.0 0.0	90.4 -20.9 86.5	89.0 103	0.766 1.0 0.0
103	105	109	0.750 1.0 0.0	90.1 -21.3 86.0	88.6 103	0.750 1.0 0.0	90.1 -21.3 86.0	88.6 103	0.750 1.0 0.0	90.1 -21.3 86.0	88.6 103	0.750 1.0 0.0
105	106	110	0.733 1.0 0.0	89.7 -23.1 83.7	86.8 105	0.733 1.0 0.0	89.7 -23.1 83.7	86.8 105	0.733 1.0 0.0	89.7 -23.1 83.7	86.8 105	0.733 1.0 0.0
106	107	112	0.716 1.0 0.0	89.3 -24.7 81.3	85.0 106	0.716 1.0 0.0	89.3 -24.7 81.3	85.0 106	0.716 1.0 0.0	89.3 -24.7 81.3	85.0 106	0.716 1.0 0.0
108	108	113	0.700 1.0 0.0	89.0 -25.8 78.9	83.2 108	0.700 1.0 0.0	89.0 -25.8 78.9	83.2 108	0.700 1.0 0.0	89.0 -25.8 78.9	83.2 108	0.700 1.0 0.0
109	109	114	0.683 1.0 0.0	88.6 -26.7 76.5	81.3 109	0.683 1.0 0.0	88.6 -26.7 76.5	81.3 109	0.683 1.0 0.0	88.6 -26.7 76.5	81.3 109	0.683 1.0 0.0
111	110	115	0.666 1.0 0.0	88.3 -28.9 74.1	79.5 111	0.666 1.0 0.0	88.3 -28.9 74.1	79.5 111	0.666 1.0 0.0	88.3 -28.9 74.1	79.5 111	0.666 1.0 0.0
112	111	116	0.650 1.0 0.0	88.0 -30.1 71.6	77.7 112	0.650 1.0 0.0	88.0 -30.1 71.6	77.7 112	0.650 1.0 0.0	88.0 -30.1 71.6	77.7 112	0.650 1.0 0.0
114	112	117	0.633 1.0 0.0	80.5 -31.2 69.2	75.9 114	0.633 1.0 0.0	80.5 -31.2 69.2	75.9 114	0.633 1.0 0.0	80.5 -31.2 69.2	75.9 114	0.633 1.0 0.0
115	113	119	0.616 1.0 0.0	79.3 -32.5 67.1	74.6 115	0.616 1.0 0.0	79.3 -32.5 67.1	74.6 115	0.616 1.0 0.0	79.3 -32.5 67.1	74.6 115	0.616 1.0 0.0
117	114	120	0.600 1.0 0.0	78.1 -34.0 65.4	73.8 117	0.600 1.0 0.0	78.1 -34.0 65.4	73.8 117	0.600 1.0 0.0	78.1 -34.0 65.4	73.8 117	0.600 1.0 0.0
119	115	121	0.583 1.0 0.0	76.9 -35.5 63.7	72.9 119	0.583 1.0 0.0	76.9 -35.5 63.7	72.9 119	0.583 1.0 0.0	76.9 -35.5 63.7	72.9 119	0.583 1.0 0.0
120	116	122	0.566 1.0 0.0	75.7 -36.9 62.0	72.1 120	0.566 1.0 0.0	75.7 -36.9 62.0	72.1 120	0.566 1.0 0.0	75.7 -36.9 62.0	72.1 120	0.566 1.0 0.0
122	117	123	0.550 1.0 0.0	74.5 -38.2 60.2	71.3 122	0.550 1.0 0.0	74.5 -38.2 60.2	71.3 122	0.550 1.0 0.0	74.5 -38.2 60.2	71.3 122	0.550 1.0 0.0
124	118	124	0.533 1.0 0.0	73.3 -39.4 58.4	70.5 124	0.533 1.0 0.0	73.3 -39.4 58.4	70.5 124	0.533 1.0 0.0	73.3 -39.4 58.4	70.5 124	0.533 1.0 0.0
125	119	126	0.516 1.0 0.0	72.1 -40.6 56.6	69.7 125	0.516 1.0 0.0	72.1 -40.6 56.6	69.7 125	0.516 1.0 0.0	72.1 -40.6 56.6	69.7 125	0.516 1.0 0.0
127	120	127	0.500 1.0 0.0	70.9 -41.7 54.8	68.9 127	0.500 1.0 0.0	70.9 -41.7 54.8	68.9 127	0.500 1.0 0.0	70.9 -41.7 54.8	68.9 127	0.500 1.0 0.0

Input: Laser printer output; separation cmyk6*, D65, page 11/83

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

1-0031030-10 RE390-70 LAB* h_{ab} , YN=0%, XY Znw=3.9, 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 RE39; hue code: H*d=B50Rd
48 step hue circles; $rgb-LabCh$ *tables

http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 12/33

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

LAB*_a0, YN=0%, XY_{Znw}=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

Output: Laser printer output: separation cmym6*. D65, page 12/83

[illegible]

see similar files: <http://130.149.60.45/~farbmatrik/RE39/RE39.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB-test chart RE39; hue code: $H^*_d=B50R_d$
48 step hue circles: *rab-LabCh**tables

[illegible]

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; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;										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; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$									
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ab,e}$	$rgb^*_{ab,d}$	$LAB^*_{ab,e}$	$LAB^*_{ab,d}$	$rgb^*_{ab,e}$	$rgb^*_{ab,d}$	$LAB^*_{ab,e}$	$LAB^*_{ab,d}$	$rgb^*_{ab,e}$	$rgb^*_{ab,d}$	$LAB^*_{ab,e}$	$LAB^*_{ab,d}$	$rgb^*_{ab,e}$	$rgb^*_{ab,d}$	$LAB^*_{ab,e}$	$LAB^*_{ab,d}$	
354	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	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	

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output, separation cmykn6 (CMYK)

TUB material: code=rha4ta

TUB-test chart RE39; hue code: H*d=B50Rd
colors and differences, ΔE^*

RE390-7N, Page 18/33-F

nf	HfC*Fid	rgb_Fid	ic_Fid	hs_Fid	LabCh*Fid	rgb*Fid	LabCh*Fid	DF*Fid	hs_Mid	rgb_Mid	LabCh*Mid	DF*Fid	hs_Mid	rgb_Mid	LabCh*Mid
0/648	R00Y_100_100a	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
1/657	R13Y_100_100a	1.0	0.125	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_100a	1.0	0.25	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_100a	1.0	0.375	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_100a	1.0	0.5	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_100a	1.0	0.625	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_100a	1.0	0.75	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_100a	1.0	0.875	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_100a	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
9/639	Y13C_100_100a	0.875	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
10/558	Y25C_100_100a	0.75	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
11/477	Y38C_100_100a	0.625	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
12/396	Y50C_100_100a	0.5	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
13/315	Y63C_100_100a	0.375	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
14/234	Y75C_100_100a	0.25	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
15/153	Y88C_100_100a	0.125	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
16/72	G00C_100_100a	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
17/73	G13C_100_100a	0.0	0.125	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_100a	0.0	0.25	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_100a	0.0	0.375	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_100a	0.0	0.5	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_100a	0.0	0.625	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_100a	0.0	0.75	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_100a	0.0	0.875	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_100a	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
25/71	C13B_100_100a	0.0	0.125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26/62	C25B_100_100a	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27/53	C38B_100_100a	0.0	0.375	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28/44	C50B_100_100a	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29/35	C63B_100_100a	0.0	0.625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30/26	C75B_100_100a	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31/17	C88B_100_100a	0.0	0.875	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_100a	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
33/89	B13M_100_100a	0.125	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
34/170	B25M_100_100a	0.25	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
35/251	B38M_100_100a	0.375	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
36/332	B50M_100_100a	0.5	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
37/413	B63M_100_100a	0.625	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
38/494	B75M_100_100a	0.75	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
39/575	B88M_100_100a	0.875	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
40/656	M00R_100_100a	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
41/655	M13R_100_100a	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
42/654	M25R_100_100a	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
43/653	M38R_100_100a	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
44/652	M50R_100_100a	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
45/651	M63R_100_100a	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
46/650	M75R_100_100a	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
47/649	M88R_100_100a	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
48/648	R00Y_100_100a	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
49/0	NW_000a	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
50/91	NW_013a	0.125	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
51/182	NW_025a	0.25	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
52/273	NW_038a	0.375	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
53/364	NW_050a	0.5	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
54/455	NW_063a	0.625	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
55/546	NW_075a	0.75	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
56/637	NW_088a	0.875	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
57/728	NW_100a	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

Mean color difference of this page:

delta E* = 2.9

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

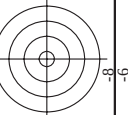
n	H1C*Fid	rgb*Fid	icL*Fid	hsL*Fid	rgb*Fid	LabCH*Fid	LabCH*Fid	rgb*Fid	DF*Fid	hsM*Fid	rgb*Fid	LabCH*Fid	LabCH*Fid
162	ROY0.025.025a	0.25	0.0	0.0	0.0	29.7	14.3	9.4	17.1	33.4	0.0	0.0	0.0
163	ROY0.025.025a	0.25	0.0	0.0	0.0	12.5	29.8	14.3	17.1	33.4	0.0	0.0	0.0
164	B50R.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	B34R.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166	B25R.050.050a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167	B16R.062.062a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169	B16R.062.062a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171	R50Y.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172	R50Y.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173	R50Y.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174	B16R.062.062a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176	B16R.062.062a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
181	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
182	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
183	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
184	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
187	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
188	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	B07R.075.075a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
193	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	Y00G.025.025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
203	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
204	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
205	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
206	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
209	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
211	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
213	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
214	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
215	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
216	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
217	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
218	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
219	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
221	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
222	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
223	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
224	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
226	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
227	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
228	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
229	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
230	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
231	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
232	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
233	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
234	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
235	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
236	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
237	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
238	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
239	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
242	G00B.037.037a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

see similar files: <http://130.149.60.45/~farbmatrik/RE39/RE39.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB-test chart RE39; hue code: $H^*_d=B50R_d$

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

n	HIC* Fe	rgb^*Fe	ic^*Fe	h_{Fe}^*	rgb^*Fe	LaCh^*Fe	LaCh^*Fe	rgb^*Fe	LaCh^*Fe	DE^*Fe	han^*Fe	rgb^*Fe	LaCh^*Fe
243	R00Y_037_037d	0.375	0.0	0.375	0.0	0.375	0.0	0.375	0.0	31.0	26.1	38.9	32.8
244	R18Y_037_037d	0.375	0.0	0.375	0.0	0.118	32.7	21.4	14.1	25.7	33.4	0.375	0.0
245	R18Y_037_037d	0.375	0.0	0.375	0.0	0.256	33.1	23.7	-0.6	23.7	358.3	0.375	0.0
246	B65R_037_037d	0.375	0.0	0.375	0.0	0.375	32.9	24.5	-4.7	24.9	349.9	0.375	0.0
247	B38R_050_050d	0.375	0.0	0.5	0.5	0.5	33.1	27.9	-10.4	29.8	339.4	0.375	0.0
248	B38R_062_062d	0.375	0.0	0.625	0.625	0.332	33.3	30.0	-17.2	34.6	330.2	0.375	0.0
249	B20R_075_075d	0.375	0.0	0.75	0.75	0.375	33.8	32.3	-23.1	39.8	324.4	0.375	0.0
250	B20R_087_087d	0.375	0.0	0.875	0.875	0.364	33.8	34.9	-29.5	45.7	319.8	0.375	0.0
251	B18R_100_100d	0.375	0.0	1.0	1.0	0.5	34.0	37.7	-35.3	51.7	316.8	0.375	0.0
252	R31Y_037_037d	0.375	0.125	0.375	0.118	0.0	38.0	13.3	21.8	25.5	58.6	0.375	0.125
253	R00Y_037_037d	0.375	0.125	0.375	0.125	0.125	38.0	14.3	9.4	17.1	33.4	0.375	0.125
254	R00Y_037_037d	0.375	0.125	0.375	0.125	0.125	38.0	14.3	9.4	17.1	33.4	0.375	0.125
255	R00Y_037_037d	0.375	0.125	0.375	0.125	0.125	38.0	14.3	9.4	17.1	33.4	0.375	0.125
256	B34R_050_037d	0.375	0.125	0.375	0.125	0.390	39.3	19.3	-16.6	34.9	339	0.375	0.125
257	B25R_062_037d	0.375	0.125	0.625	0.5	0.375	32.4	33.9	10.2	32.7	36.2	0.375	0.125
258	B25R_062_062d	0.375	0.125	0.625	0.5	0.375	32.4	33.9	10.2	32.7	36.2	0.375	0.125
259	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
260	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
261	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
262	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
263	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
264	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
265	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
266	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
267	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
268	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
269	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
270	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
271	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
272	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
273	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
274	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
275	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
276	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
277	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
278	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
279	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
280	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
281	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
282	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
283	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
284	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
285	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
286	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
287	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
288	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
289	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
290	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
291	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
292	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
293	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
294	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
295	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
296	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
297	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
298	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
299	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
300	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
301	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
302	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
303	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
304	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
305	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
306	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
307	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
308	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
309	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
310	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
311	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
312	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
313	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
314	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
315	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
316	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
317	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
318	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
319	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
320	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
321	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
322	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125
323	B18R_075_062d	0.375	0.125	0.75	0.75	0.625	39.5	21.5	-15.4	26.5	26.4	0.375	0.125

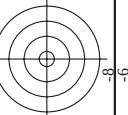


TUB material: code=rha4ta
cmyn6 (CMYK)

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

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1-0032330-F0	RE390-7N, Page 24/33-F	1-0032330-F0
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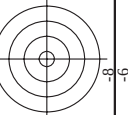


TUB material: code=rha4ta
cmyn6 (CMYK)

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

RE390-7N, Page 25/33-F

[illegible]



TUB material: code=rha4ta

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

RE390-7N, Page 26/33-F

[illegible]



TUB material: code=rha4ta
cmyn6 (CMYK)

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

TUB-test chart RE39; hue code: $H_d^* = B50R_d$
colors and differences. ΔE^* ,

[illegible]



TUB material: code=rha4ta
cmyn6 (CMYK)

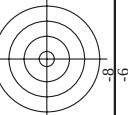
input: *rgb/cmyk* → *rgb*_d
output: transfer to *cmyk*_d

1-003280-F0	RE390-7N, Page 29/33-F	
	TUB-test chart RE39; hue code: $H^*_d=B50R_d$ colors and differences, ΔE^* ,	
	input: $rgb/cmyk \rightarrow rgb_d$ output: transfer to $cmyk_d$	

TUB-test chart RE39; hue code: $H^*_d=B50R_d$
colors and differences, ΔE^* ,

RF390-7N Page 20/23-F

1-0032830-F0



TUB material: code=rha4ta
cmyn6 (CMYK)

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

2F390-7N Page 30/33-F

1-0032930-EO

[illegible]

<http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT> / .PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 31/33

TUB-test chart RE39; hue code: H*d=B50Rd
colors and differences, ΔE*
input: rgb/cmyk -> rgba
output: transfer to cmykd

n	H* ^{CH} *d	rgb ^{CH} *d	h _{ab} ^{CH} *d	LabCH ^{CH} *d	rgb ^{CH} *d	DF ^{CH} *d	h _{ab} ^{CH} *d	LabCH ^{CH} *d	rgb ^{CH} *d	LabCH ^{CH} *d
891	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
892	B50R_002.012d	1.0	0.875	1.0	0.875	1.0	0.875	1.0	0.875	1.0
893	B50R_002.025d	1.0	0.75	1.0	0.75	1.0	0.75	1.0	0.75	1.0
894	B50R_002.037d	1.0	0.625	1.0	0.625	1.0	0.625	1.0	0.625	1.0
895	B50R_002.050d	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0
896	B50R_002.062d	1.0	0.375	1.0	0.375	1.0	0.375	1.0	0.375	1.0
897	B50R_002.075d	1.0	0.25	1.0	0.25	1.0	0.25	1.0	0.25	1.0
898	B50R_002.087d	1.0	0.125	1.0	0.125	1.0	0.125	1.0	0.125	1.0
899	B50R_002.100d	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0
900	GOB_100.012d	0.875	1.0	0.875	1.0	0.875	1.0	0.875	1.0	0.875
901	NW_087d	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
902	B50R_007.012d	0.875	0.75	0.875	0.75	0.875	0.75	0.875	0.75	0.875
903	B50R_007.025d	0.875	0.625	0.875	0.625	0.875	0.625	0.875	0.625	0.875
904	B50R_007.037d	0.875	0.5	0.875	0.5	0.875	0.5	0.875	0.5	0.875
905	B50R_007.050d	0.875	0.375	0.875	0.375	0.875	0.375	0.875	0.375	0.875
906	B50R_007.062d	0.875	0.25	0.875	0.25	0.875	0.25	0.875	0.25	0.875
907	B50R_007.075d	0.875	0.125	0.875	0.125	0.875	0.125	0.875	0.125	0.875
908	B50R_007.087d	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875
909	GOB_100.025d	0.75	1.0	0.75	1.0	0.75	1.0	0.75	1.0	0.75
910	GOB_100.037d	0.75	0.875	0.75	0.875	0.75	0.875	0.75	0.875	0.75
911	NW_075d	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
912	B50R_007.012d	0.75	0.625	0.75	0.625	0.75	0.625	0.75	0.625	0.75
913	B50R_007.025d	0.75	0.5	0.75	0.5	0.75	0.5	0.75	0.5	0.75
914	B50R_007.037d	0.75	0.375	0.75	0.375	0.75	0.375	0.75	0.375	0.75
915	B50R_007.050d	0.75	0.25	0.75	0.25	0.75	0.25	0.75	0.25	0.75
916	B50R_007.062d	0.75	0.125	0.75	0.125	0.75	0.125	0.75	0.125	0.75
917	B50R_007.075d	0.75	0.0	0.75	0.0	0.75	0.0	0.75	0.0	0.75
918	GOB_100.037d	0.625	1.0	0.625	1.0	0.625	1.0	0.625	1.0	0.625
919	GOB_100.050d	0.625	0.875	0.625	0.875	0.625	0.875	0.625	0.875	0.625
920	GOB_100.062d	0.625	0.75	0.625	0.75	0.625	0.75	0.625	0.75	0.625
921	GOB_100.075d	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
922	B50R_062.012d	0.625	0.5	0.625	0.5	0.625	0.5	0.625	0.5	0.625
923	B50R_062.025d	0.625	0.375	0.625	0.375	0.625	0.375	0.625	0.375	0.625
924	B50R_062.037d	0.625	0.25	0.625	0.25	0.625	0.25	0.625	0.25	0.625
925	B50R_062.050d	0.625	0.125	0.625	0.125	0.625	0.125	0.625	0.125	0.625
926	B50R_062.062d	0.625	0.0	0.625	0.0	0.625	0.0	0.625	0.0	0.625
927	GOB_100.050d	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5
928	GOB_087.037d	0.5	0.875	0.5	0.875	0.5	0.875	0.5	0.875	0.5
929	GOB_087.050d	0.5	0.75	0.5	0.75	0.5	0.75	0.5	0.75	0.5
930	GOB_087.062d	0.5	0.625	0.5	0.625	0.5	0.625	0.5	0.625	0.5
931	NW_050d	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
932	B50R_050.012d	0.5	0.375	0.5	0.375	0.5	0.375	0.5	0.375	0.5
933	B50R_050.025d	0.5	0.25	0.5	0.25	0.5	0.25	0.5	0.25	0.5
934	B50R_050.037d	0.5	0.125	0.5	0.125	0.5	0.125	0.5	0.125	0.5
935	B50R_050.050d	0.5	0.0	0.5	0.0	0.5	0.0	0.5	0.0	0.5
936	GOB_100.062d	0.375	1.0	0.375	1.0	0.375	1.0	0.375	1.0	0.375
937	GOB_087.050d	0.375	0.875	0.375	0.875	0.375	0.875	0.375	0.875	0.375
938	GOB_087.062d	0.375	0.75	0.375	0.75	0.375	0.75	0.375	0.75	0.375
939	GOB_087.075d	0.375	0.625	0.375	0.625	0.375	0.625	0.375	0.625	0.375
940	GOB_087.087d	0.375	0.5	0.375	0.5	0.375	0.5	0.375	0.5	0.375
941	NW_037d	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
942	B50R_037.012d	0.375	0.25	0.375	0.25	0.375	0.25	0.375	0.25	0.375
943	B50R_037.025d	0.375	0.125	0.375	0.125	0.375	0.125	0.375	0.125	0.375
944	B50R_037.037d	0.375	0.0	0.375	0.0	0.375	0.0	0.375	0.0	0.375
945	GOB_100.075d	0.25	1.0	0.25	1.0	0.25	1.0	0.25	1.0	0.25
946	GOB_087.062d	0.25	0.875	0.25	0.875	0.25	0.875	0.25	0.875	0.25
947	GOB_087.075d	0.25	0.75	0.25	0.75	0.25	0.75	0.25	0.75	0.25
948	GOB_087.087d	0.25	0.625	0.25	0.625	0.25	0.625	0.25	0.625	0.25
949	GOB_087.100d	0.25	0.5	0.25	0.5	0.25	0.5	0.25	0.5	0.25
950	GOB_037.012d	0.25	0.375	0.25	0.375	0.25	0.375	0.25	0.375	0.25
951	NW_025d	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
952	B50R_025.012d	0.25	0.125	0.25	0.125	0.25	0.125	0.25	0.125	0.25
953	B50R_025.025d	0.25	0.0	0.25	0.0	0.25	0.0	0.25	0.0	0.25
954	GOB_100.087d	0.125	1.0	0.125	1.0	0.125	1.0	0.125	1.0	0.125
955	GOB_087.075d	0.125	0.875	0.125	0.875	0.125	0.875	0.125	0.875	0.125
956	GOB_087.062d	0.125	0.75	0.125	0.75	0.125	0.75	0.125	0.75	0.125
957	GOB_087.050d	0.125	0.625	0.125	0.625	0.125	0.625	0.125	0.625	0.125
958	GOB_050.037d	0.125	0.5	0.125	0.5	0.125	0.5	0.125	0.5	0.125
959	GOB_037.025d	0.125	0.375	0.125	0.375	0.125	0.375	0.125	0.375	0.125
960	GOB_025.012d	0.125	0.25	0.125	0.25	0.125	0.25	0.125	0.25	0.125
961	NW_012d	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
962	B50R_012.012d	0.125	0.0	0.125	0.0	0.125	0.0	0.125	0.0	0.125
963	GOB_100.100d	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
964	GOB_087.087d	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
965	GOB_087.075d	0.0	0.75	0.0	0.75	0.0	0.75	0.0	0.75	0.0
966	GOB_087.062d	0.0	0.625	0.0	0.625	0.0	0.625	0.0	0.625	0.0
967	GOB_087.050d	0.0	0.5	0.0	0.5	0.0	0.5	0.0	0.5	0.0
968	GOB_037.037d	0.0	0.375	0.0	0.375	0.0	0.375	0.0	0.375	0.0
969	GOB_025.025d	0.0	0.25	0.0	0.25	0.0	0.25	0.0	0.25	0.0
970	GOB_012.012d	0.0	0.125	0.0	0.125	0.0	0.125	0.0	0.125	0.0
971	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Mean color difference of this page: ΔE* = 6.7

TUB registration: 20150701-RE39/RE39L0NA.TXT /.PS
application for measurement of laser printer output, separation cmykn6 (CMYK)

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmetrik/RE39/RE39.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmetrik/RE39/RE39L0NA.TXT> /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fid	rgb_Fid	ic*_Fid	h*_Fid	rgb*_Fid	LabCh*_Fid	h*_Fid	LabCh*_Fid	rgb*_Fid	LabCh*_Fid	DE*_Fid	h*_Fid	rgb*_Fid	LabCh*_Fid	DE*_Fid	h*_Fid	rgb*_Fid	LabCh*_Fid
1053	NW_086q	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	0.866
1054	NW_093q	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	0.933
1055	NW_100q	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	1.0
1056	NW_006q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	NW_006q	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	0.066
1058	NW_013q	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	0.133
1059	NW_020q	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	0.2
1060	NW_026q	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	0.266
1061	NW_033q	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	0.333
1062	NW_040q	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	0.4
1063	NW_046q	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	0.466
1064	NW_053q	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	0.533
1065	NW_060q	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	0.6
1066	NW_066q	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	0.666
1067	NW_073q	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	0.734
1068	NW_080q	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	0.8
1069	NW_086q	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	0.866
1070	NW_093q	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	0.933
1071	NW_100q	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	1.0
1072	NW_000q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073	RO0Y_100_100q	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	1.0
1074	RO0Y_100_100q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1075	Y00B_100_100q	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	1.0
1076	Y00B_100_100q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1077	B00R_100_100q	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	1.0
1078	B00R_100_100q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1079	B50R_100_100q	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	1.0

Mean color difference of this page:

delta E* = 3.0

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

TUB-test chart RE39; hue code: H*_d=B50Rd
colors and differences, ΔE^*

RE390-7N, Page 33/33-F

I-0033230-F0

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 353/360 = 0.98$

$H^*_-=B50R_-$

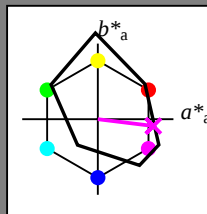
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_-=B50R_-$

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):

$LabCh^*_{-,Ma}$: 49 73 -9 74 353

$HIC^*_{-,Ma}$: B50R_100_100_

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

1.0 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

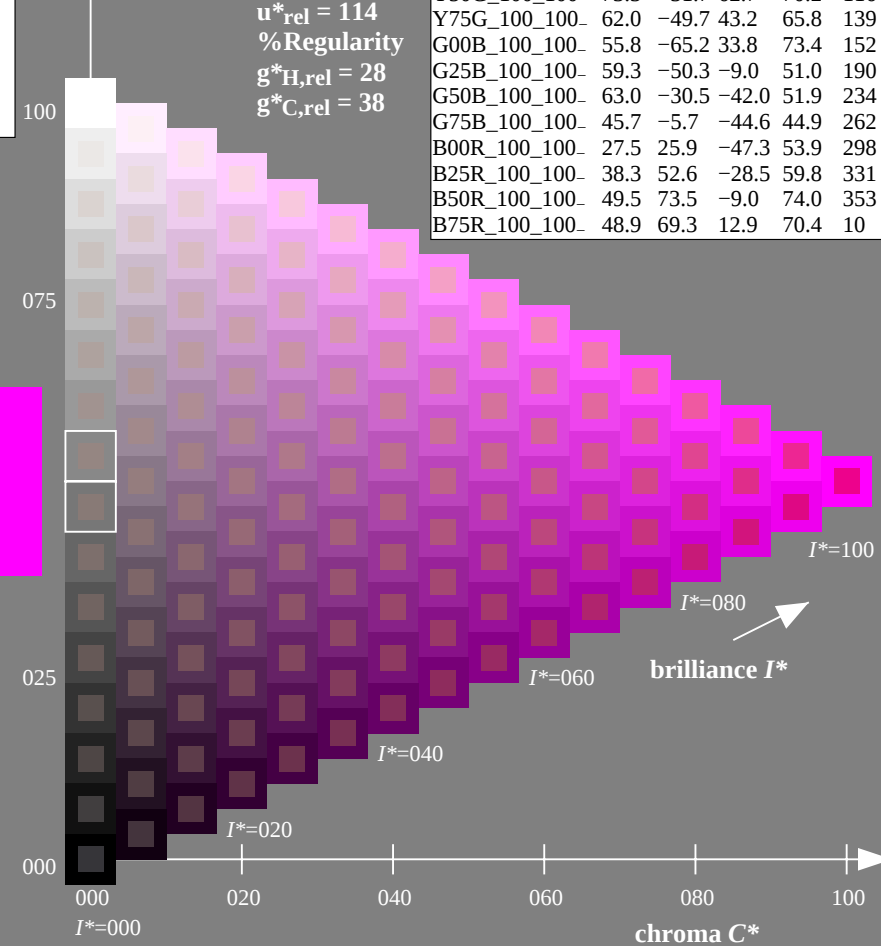
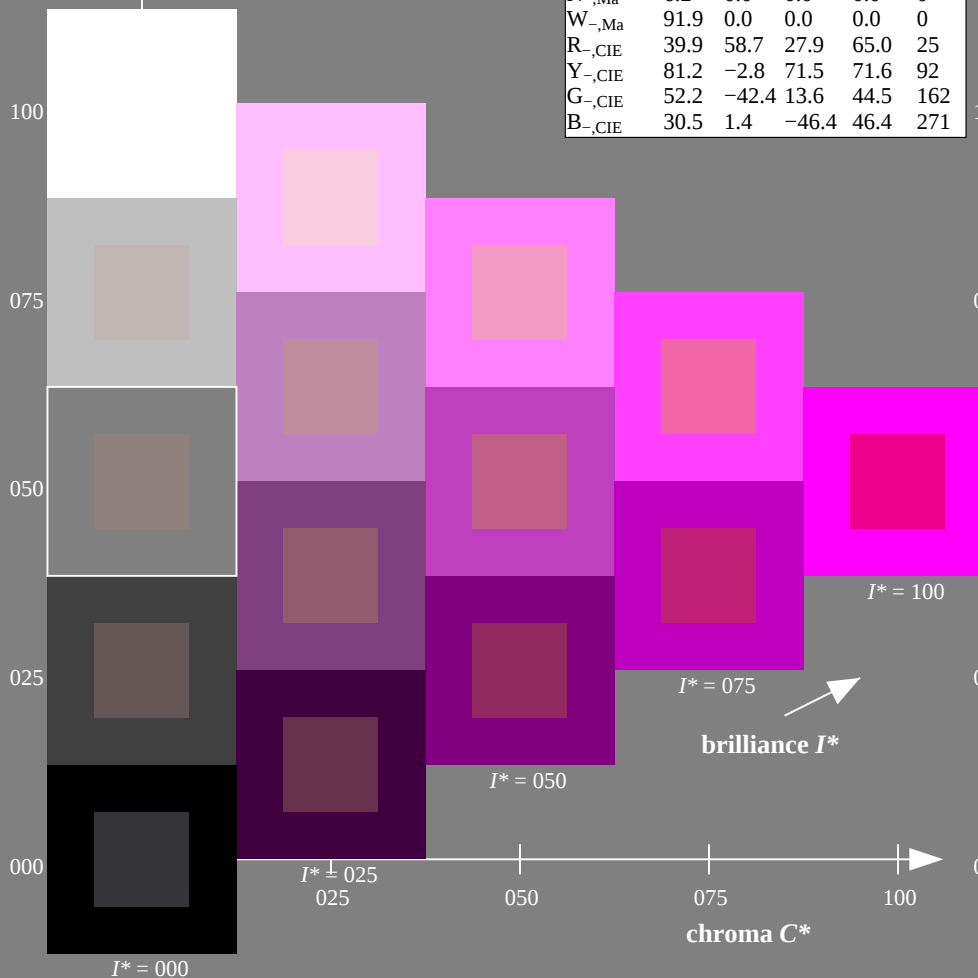
% Regularity

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

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

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 RE39; hue code: $H^*_-=B50R_-$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/RE39/RE39L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/33

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 328/360 = 0.91$

$H^*_e = B50R_e$

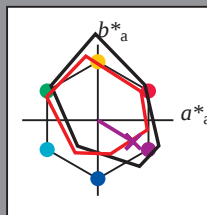
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = B50R_e$

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):

$LabCh^*_e, Ma$: 38 46 -28 54 328

HIC^*_e, Ma : B50R_100_100_e

$rgbic^*_e, Ma$:

0.58 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 114$

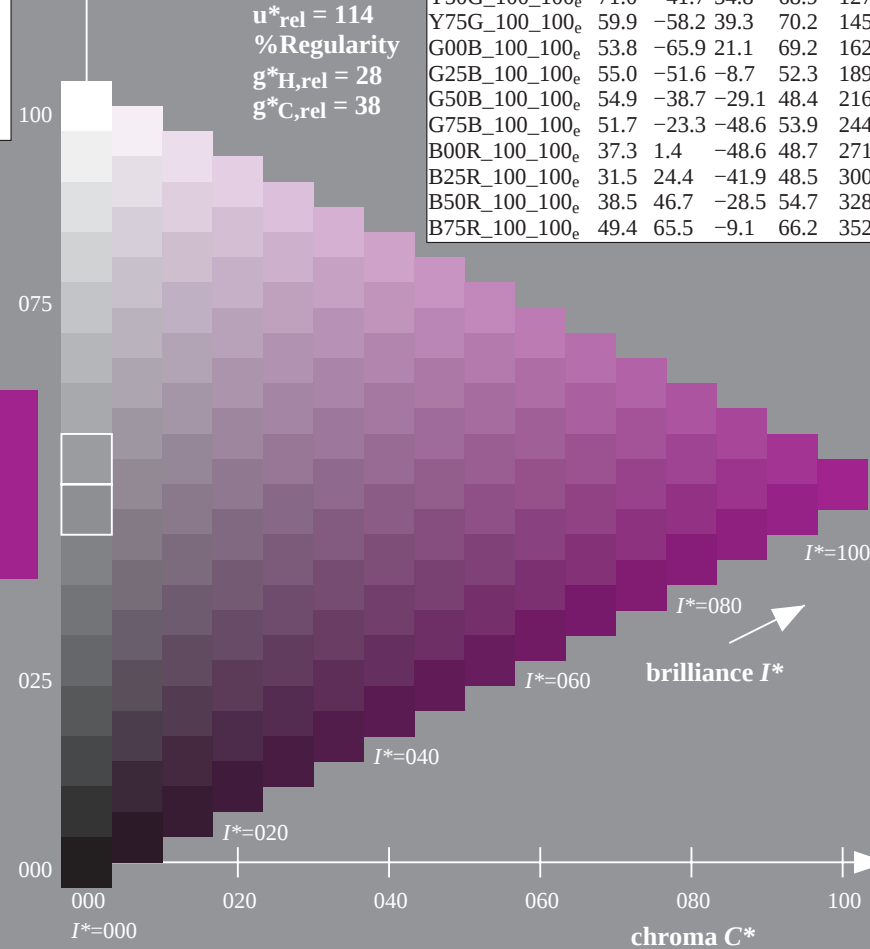
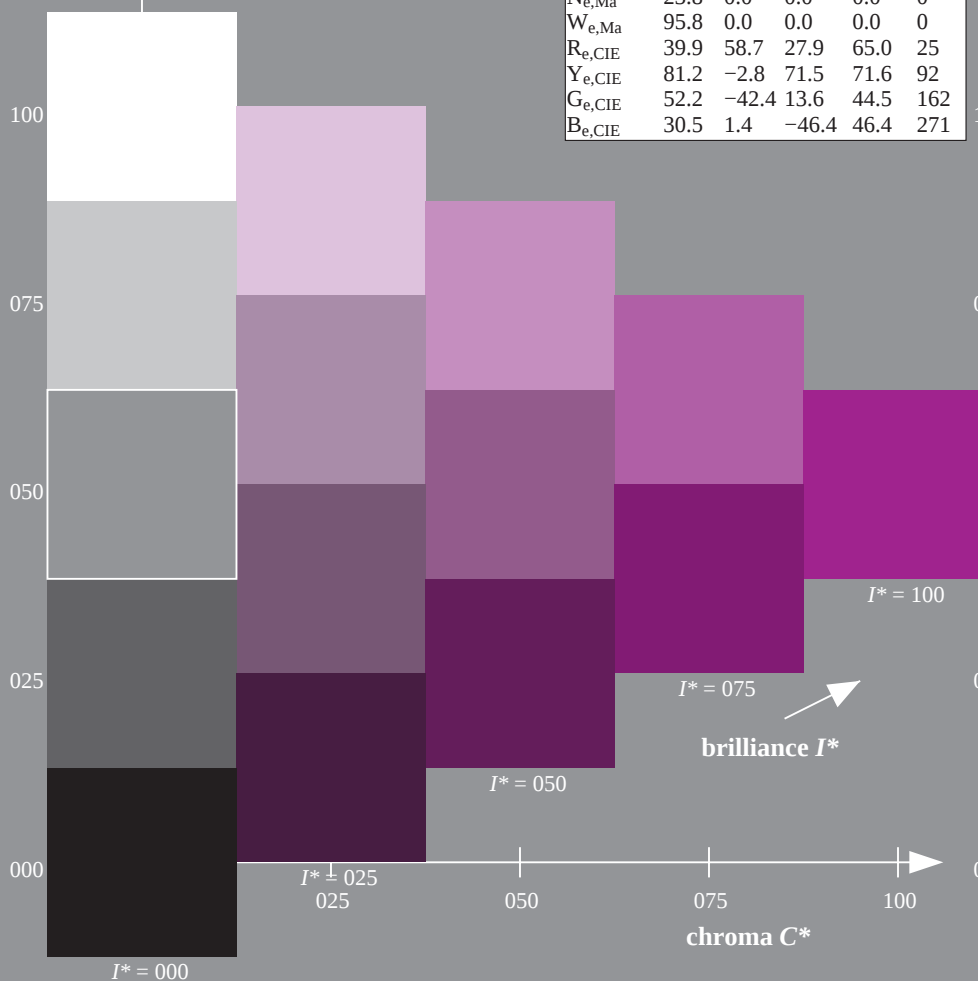
% Regularity

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

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

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

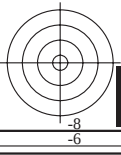
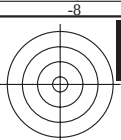
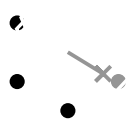
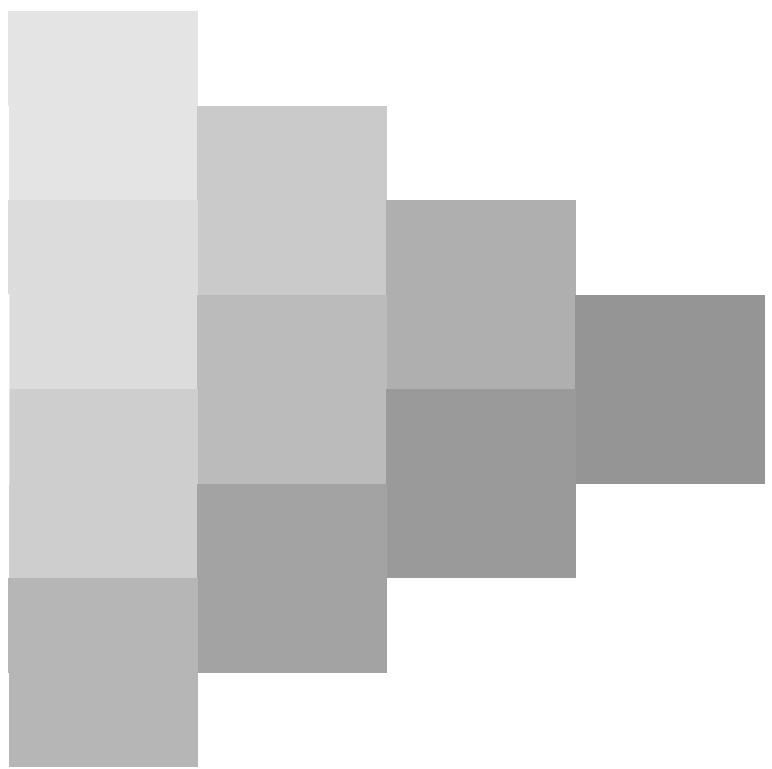
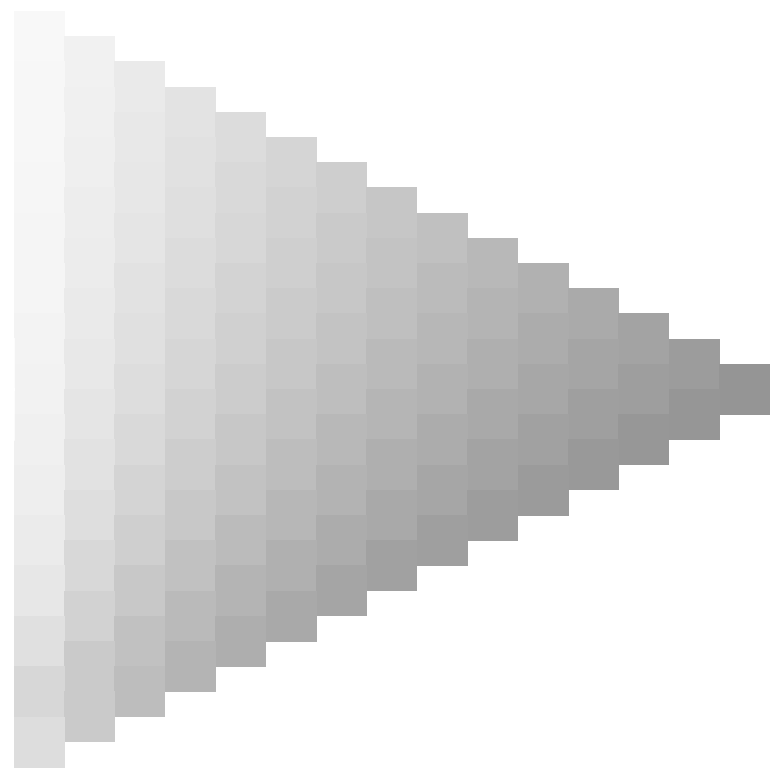
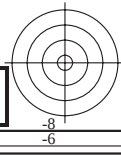
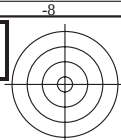


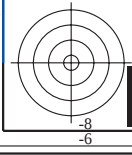
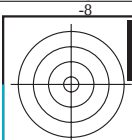
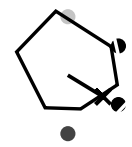
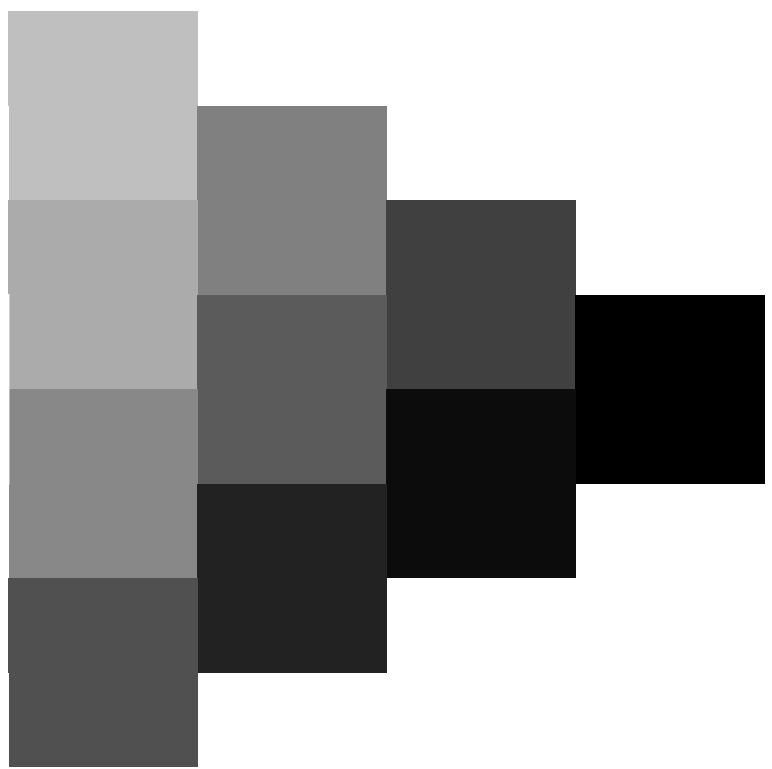
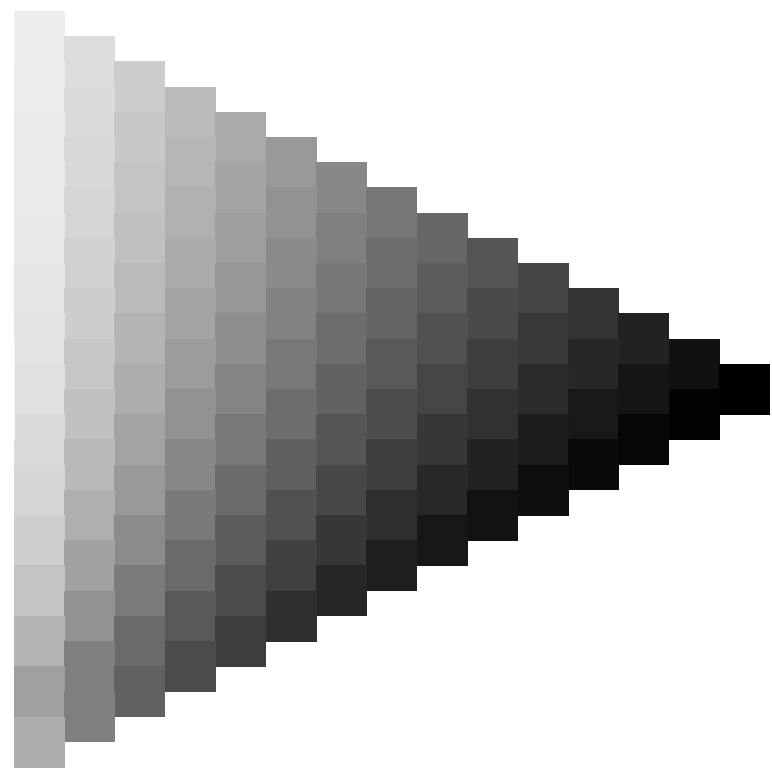
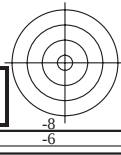
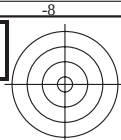
TUB-test chart RE39; hue code: $H^*_e = B50R_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

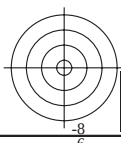
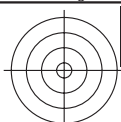
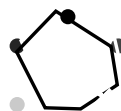
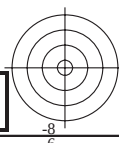
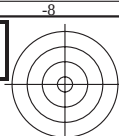
input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output, separation cmyk6 (CMYK)

TUB material: code=rha4ta







Input and Output: Printer Reflective System FRS06a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 328/360 = 0.91$

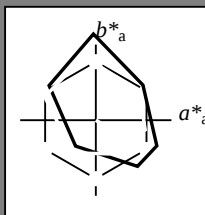
Data for any device (d) or elementary (e) colour:

HIC_e^*

hue text for the colours of this page:

$H_e^* = B50R_e$

triangle lightness T^*



LRS18a; adapted (a) CIELAB data					
name	$L^*=L_a^*$	a^*	b^*	$C_{ab,a}^*$	$h_{ab,a}^*$
$R_{e, Ma}$	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):

$LabCh_{e, Ma}^*$: 38 46 -28 54 328

$HIC_{e, Ma}^*$: B50R_100_100_e

$rgbic_{e, Ma}^*$:

0.58 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

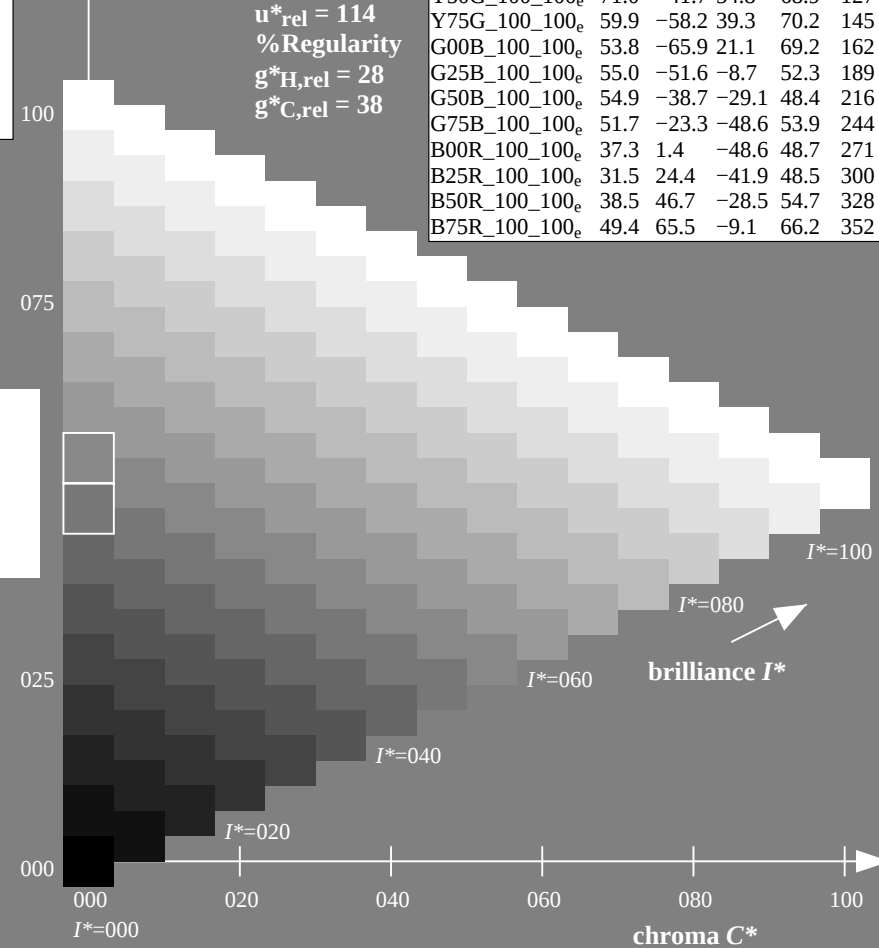
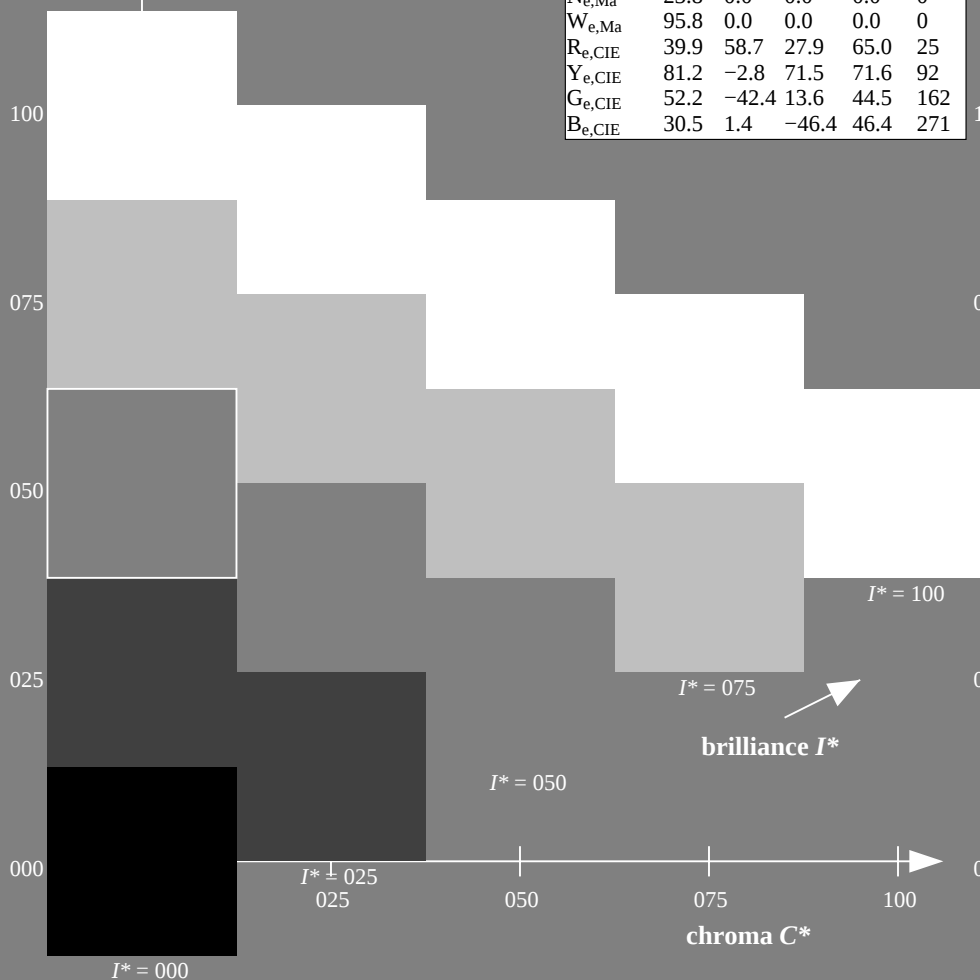
$u_{rel}^* = 114$

% Regularity

$g_{H, rel}^* = 28$

$g_{C, rel}^* = 38$

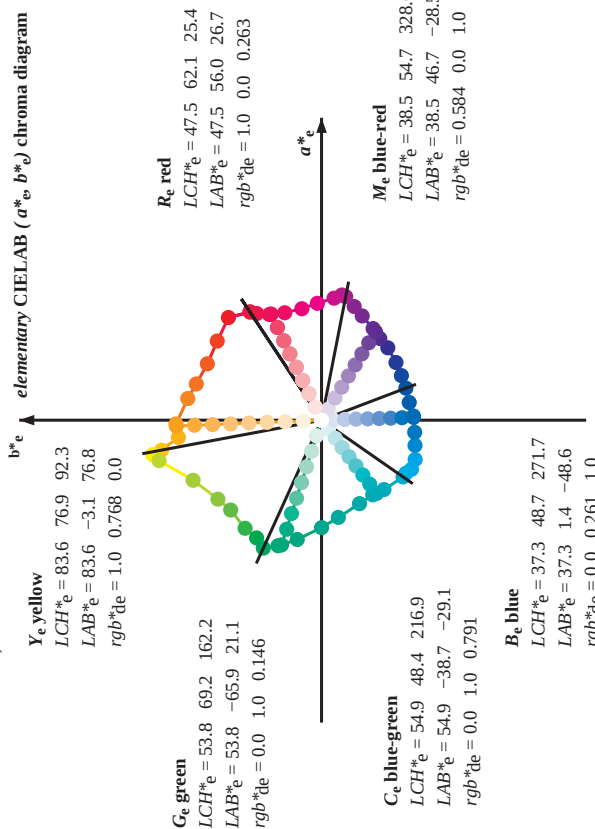
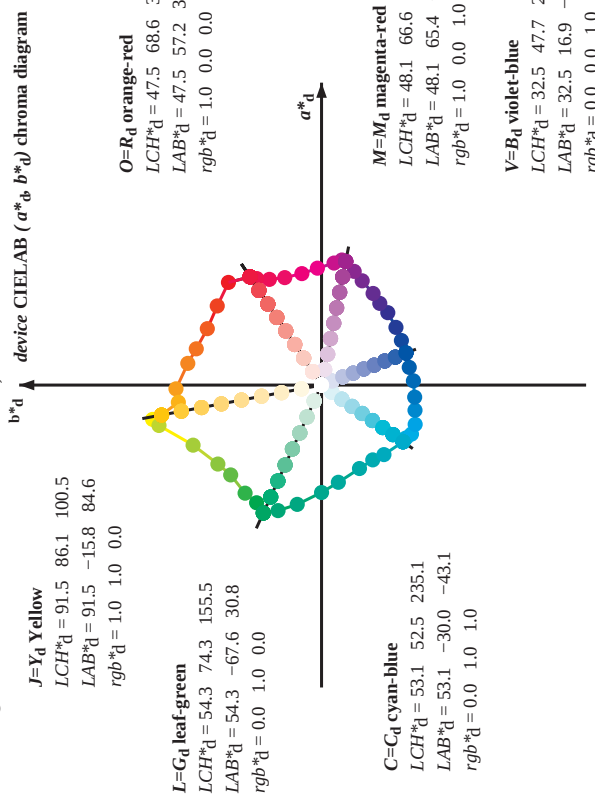
LRS18a; adapted (a) CIELAB data					
H_e^*	$L^*=L_a^*$	a^*	b^*	$C_{ab,a}^*$	$h_{ab,a}^*$
$R00Y_{100_100_e}$	47.5	56.0	26.7	62.1	25
$R25Y_{100_100_e}$	51.4	54.8	47.7	72.6	41
$R50Y_{100_100_e}$	61.8	35.2	58.4	68.2	58
$R75Y_{100_100_e}$	72.3	16.1	68.2	70.1	76
$Y00G_{100_100_e}$	83.6	-3.1	76.8	76.9	92
$Y25G_{100_100_e}$	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



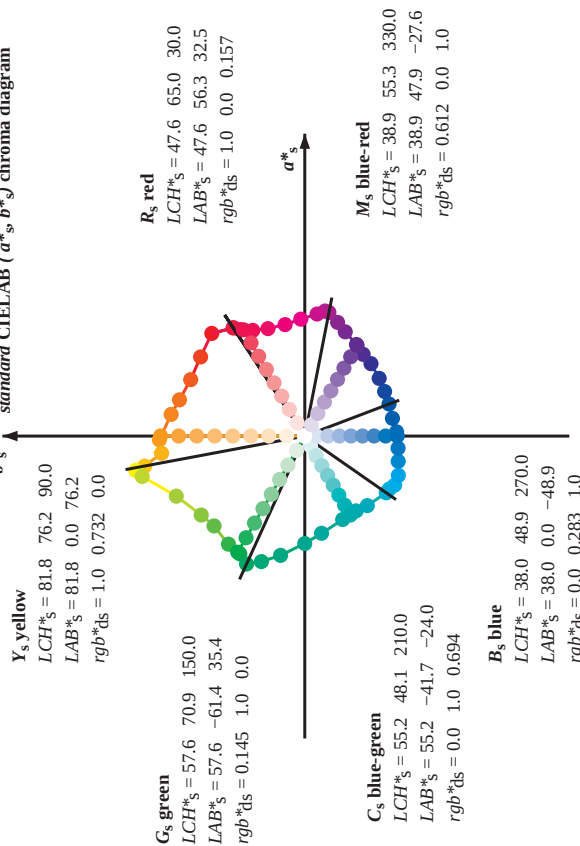
TUB-test chart RE39; hue code: $H_e^* = B50R_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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 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)

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

$$h_{ab,s} = \arctan \left[\frac{r^*_d \cos(30) + g^*_d \sin(150)}{1 / r^*_d \sin(30) + b^*_d \sin(270)} \right] \quad (1)$$
3. 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:

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

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$
4. 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:

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

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$
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.
6. The values rgb^*_e produce the output of the device-independent elementary hues

LAB*_{la0}, YN=0%, XY Znw=3.9, 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 RE39; hue code: H*_e=B50R_e
48 step hue circles; $rgb-LabCh^*$ tables

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

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

http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

5.8, 0.0, 0.0	input: <i>rgb/cmyk</i> → <i>rgbe</i> output: transfer to <i>cmyke</i>
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TUB-test chart RE39; hue code: $H^*_e=B50R_e$
48 step hue circles; *rgb-LabCh**tables

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 RYGCBM _c ; 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 _c ; h _{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6										
rgb*	h _{ab} *	h _{ab,s}	h _{ab,e}	rgb*	h _{ab} *	h _{ab,s}	h _{ab,e}	rgb*	h _{ab} *	
LAB*	dx64M	LAB*	dx64M	LAB*	dx64M	LAB*	dx64M	LAB*	dx64M	
33.4	0.0	0.0	47.5	57.2	37.8	68.6	33.4	33.4	0.0	
42.1	0.0125	0.0	51.9	54.3	49.2	73.2	42.1	42.1	0.0	
52.8	0.025	0.0	58.2	41.8	55.1	69.2	52.8	42.1	0.0	
63.7	0.0375	0.0	64.6	29.8	60.4	67.3	63.7	52.8	0.0	
73.8	0.05	0.0	70.5	19.2	66.2	69.0	73.8	63.7	0.0	
80.7	0.0625	0.0	74.9	11.4	70.7	71.6	80.7	73.8	0.0	
91.5	0.075	0.0	82.9	-2.0	76.9	77.0	91.5	80.7	0.0	
96.8	0.0875	0.0	87.6	-9.0	75.7	76.3	96.8	91.5	0.0	
100.5	0.1	0.0	91.5	-15.8	84.6	86.1	100.5	96.8	0.0	
101.4	0.1014	97.5	92.8	-18.1	89.4	91.2	101.4	100.5	0.0	
103.9	0.1039	105.0	109.7	-21.3	86.0	88.6	103.9	101.4	0.0	
115.0	0.0	70.9	90.9	-31.7	67.9	75.0	115.0	103.9	0.0	
127.3	0.0	70.9	41.7	54.8	68.9	127.3	127.3	115.0	0.0	
134.7	0.0	66.5	-47.5	48.0	67.6	134.7	134.7	127.3	0.0	
144.7	0.0	60.6	-57.2	40.4	70.1	144.7	144.7	134.7	0.0	
151.0	0.0	57.0	-62.2	34.4	71.1	151.0	151.0	144.7	0.0	
155.5	0.0	54.3	-67.6	30.8	74.3	155.5	155.5	151.0	0.0	
160.8	0.0	0.125	53.8	-66.4	23.0	70.2	160.8	155.5	0.0	
168.5	0.0	0.025	53.7	-63.1	12.8	64.4	168.5	160.8	0.0	
179.9	0.0	0.0375	54.7	-56.8	0.0	56.8	179.9	168.5	0.0	
189.8	0.0	0.05	55.0	-51.4	-8.9	52.2	189.8	179.9	0.0	
204.4	0.0	0.0625	55.3	-44.1	-20.0	48.5	204.4	189.8	0.0	
214.4	0.0	0.075	55.2	-39.5	-27.1	47.9	214.4	204.4	0.0	
221.9	0.0	0.0875	54.4	-36.7	-33.0	49.4	221.9	214.4	0.0	
235.1	0.0	0.1	53.1	-30.0	-43.1	52.5	235.1	221.9	0.0	
237.9	0.0	0.0875	1.0	53.1	-27.9	-44.7	52.7	237.9	235.1	0.0
241.3	0.0	0.075	1.0	52.9	-25.9	-47.5	54.1	241.3	237.9	0.0
247.2	0.0	0.0625	1.0	50.5	-20.8	-49.5	53.7	247.2	241.3	0.0
254.9	0.0	0.05	1.0	46.1	-13.3	-49.4	51.1	254.9	247.2	0.0
262.6	0.0	0.0375	1.0	41.4	-6.3	-49.2	49.6	262.6	254.9	0.0
272.6	0.0	0.025	1.0	36.8	2.2	-48.5	48.6	272.6	262.6	0.0
281.4	0.0	0.0125	1.0	35.0	9.4	-46.3	47.3	281.4	272.6	0.0
290.8	0.0	0.0	0.1	32.5	16.9	-44.6	47.7	290.8	281.4	0.0
307.8	0.0	0.0125	0.0	31.6	23.6	-42.2	48.4	307.8	290.8	0.0
317.5	0.0	0.0	0.1	31.0	30.5	-39.3	49.8	307.8	307.8	0.0
324.4	0.0	0.0	0.1	34.2	38.2	-35.0	51.8	317.5	317.5	0.0
330.6	0.0	0.0	0.1	37.2	43.1	-30.8	53.0	324.4	324.4	0.0
338.7	0.0	0.0	0.1	39.1	48.4	-27.2	55.6	330.6	330.6	0.0
343.9	0.0	0.0	0.1	41.8	55.1	-21.4	59.1	338.7	338.7	0.0
348.9	0.0	0.0	0.1	45.6	60.1	-17.3	62.6	343.9	343.9	0.0
350.7	0.0	0.0	0.1	48.1	65.4	-12.7	66.6	348.9	348.9	0.0
354.2	0.0	0.0	0.1	49.5	66.1	-10.7	67.0	350.7	350.7	0.0
361.9	0.0	0.0	0.1	49.3	64.5	-6.5	64.8	354.2	354.2	0.0
370.0	0.0	0.0	0.1	47.8	58.9	10.4	59.9	361.9	361.9	0.0
378.9	0.0	0.0	0.1	37.5	47.4	56.8	19.5	370.0	370.0	0.0
386.2	0.0	0.0	0.25	47.5	55.9	27.5	62.3	378.9	378.9	0.0
391.3	0.0	0.0	0.125	47.6	56.3	34.2	65.9	386.2	386.2	0.0
393.4	0.0	0.0	0.0	47.5	57.2	37.8	68.6	391.3	391.3	0.0
393.4	0.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4	0.0

<http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT> /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 12/33

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

LAB*a0, YN=0%	LAB*Yn=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*Yn=23.9, 0.0, 0.0, 95.8, 0.0, 0.0
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input: *rgb/cmyk* → *rgbe*
output: transfer to *cmyke*

TUB-test chart RE39; hue code: H*_e=B50R_e
48 step hue circles: *rab-LabCh** tables

Output: Laser printer output: separation cmv6*. D65 page 12/83

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; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$										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^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}	rgb^*_{d361M}	LAB^*_{d361M}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
235	210	216	0.0	1.0	53.1	-30.0	-43.1	52.5	235	C_d	0.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	C_s	0.0	1.0	1.0	0.694	55.3	-41.6	-24.0	48.2

1-0131330-L0 RE390-71 LAB*lab, YN=0%, XY Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB*rw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

TUB-test chart RE39; hue code: H*_e=B50R_e
48 step hue circles; rgb-LabCh*tables

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

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

see similar files: <http://130.149.60.45/~farbmatrik/RE39/RE39.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/RE39/RE39L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/33

1-0131930-F0

REF390-7N Page 20

1111

TUB-test chart RE39; hue code: $H^*_e = B50R_e$

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

n-j	HfC ^{Fe}	rs ^{Fe}	fc ^{Fe}	hs ^{Fe}	rg ^b -Fe	LabCh ^{Fe} -Fe	rg ^b -Fe	LabCh ^{Fe} -Fe	rg ^b -Fe	DE [*] -Fe	hs ^{Fe}	rg ^b -Fe	LabCh ^{Fe} -Fe
0	NW_000r	0.0	0.0	360	0.0	23.8	0.0	23.8	0.0	0.0	0.0	1.0	95.8
1	B00R_012_012e	0.0	0.125	0.062	270	0.0	0.032	0.125	0.0	0.0	0.0	1.0	95.8
2	B00R_025_025e	0.0	0.25	0.125	270	0.0	0.065	0.25	0.0	0.0	0.0	1.0	95.8
3	B00R_037_037e	0.0	0.375	0.187	270	0.0	0.097	0.375	0.0	0.0	0.0	1.0	95.8
4	B00R_050_050e	0.0	0.5	0.25	270	0.0	0.13	0.5	0.0	0.0	0.0	1.0	95.8
5	B00R_062_062e	0.0	0.625	0.312	270	0.0	0.163	0.625	0.0	0.0	0.0	1.0	95.8
6	B00R_075_075e	0.0	0.75	0.375	270	0.0	0.195	0.75	0.0	0.0	0.0	1.0	95.8
7	B00R_087_087e	0.0	0.875	0.437	270	0.0	0.228	0.875	0.0	0.0	0.0	1.0	95.8
8	B00R_100_100e	0.0	1.0	0.5	270	0.0	0.261	1.0	0.0	0.0	0.0	1.0	95.8
9	G00B_012_012e	0.0	0.125	0.0	270	0.0	0.125	0.018	0.0	0.0	0.0	1.0	95.8
10	G50B_025_025e	0.0	0.125	0.062	210	0.0	0.125	0.098	0.0	0.0	0.0	1.0	95.8
11	G75B_012_012e	0.0	0.125	0.125	240	0.0	0.171	0.25	0.0	0.0	0.0	1.0	95.8
12	G84B_037_037e	0.0	0.125	0.187	251	0.0	0.19	0.375	0.0	0.0	0.0	1.0	95.8
13	G88B_050_050e	0.0	0.125	0.25	256	0.0	0.217	0.5	0.0	0.0	0.0	1.0	95.8
14	G88B_062_062e	0.0	0.125	0.312	259	0.0	0.244	0.625	0.0	0.0	0.0	1.0	95.8
15	G92B_075_075e	0.0	0.125	0.375	261	0.0	0.273	0.75	0.0	0.0	0.0	1.0	95.8
16	G98B_087_087e	0.0	0.125	0.437	263	0.0	0.308	0.875	0.0	0.0	0.0	1.0	95.8
17	G94B_100_100e	0.0	0.125	0.5	263	0.0	0.341	1.0	0.0	0.0	0.0	1.0	95.8
18	G25B_025_025e	0.0	0.25	0.125	150	0.0	0.25	0.036	0.0	0.0	0.0	1.0	95.8
19	G25B_025_025e	0.0	0.25	0.125	180	0.0	0.25	0.125	0.0	0.0	0.0	1.0	95.8
20	G50B_037_037e	0.0	0.25	0.187	229	0.0	0.375	0.197	0.0	0.0	0.0	1.0	95.8
21	G50B_037_037e	0.0	0.25	0.187	229	0.0	0.375	0.197	0.0	0.0	0.0	1.0	95.8
22	G75B_050_050e	0.0	0.25	0.25	240	0.0	0.343	0.5	0.0	0.0	0.0	1.0	95.8
23	G80B_062_062e	0.0	0.25	0.312	247	0.0	0.354	0.625	0.0	0.0	0.0	1.0	95.8
24	G84B_075_075e	0.0	0.25	0.375	251	0.0	0.381	0.75	0.0	0.0	0.0	1.0	95.8
25	G88B_087_087e	0.0	0.25	0.437	254	0.0	0.406	0.875	0.0	0.0	0.0	1.0	95.8
26	G92B_100_100e	0.0	0.25	0.5	256	0.0	0.434	1.0	0.0	0.0	0.0	1.0	95.8
27	G98B_037_037e	0.0	0.375	0.187	160	0.0	0.375	0.187	0.0	0.0	0.0	1.0	95.8
28	G98B_037_037e	0.0	0.375	0.187	160	0.0	0.375	0.187	0.0	0.0	0.0	1.0	95.8
29	G50B_037_037e	0.0	0.375	0.187	191	0.0	0.375	0.187	0.0	0.0	0.0	1.0	95



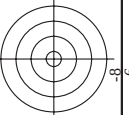
TUB material: code=rha4ta
myn6 (CMYK)

TTUB-test chart RE39; hue code: $H_e^* = B50R_e$
 colors and differences, ΔE^* ,

1-013230-F0	RE390-7N, Page 23/33-F	
	TUB-test chart RE39; hue code: $H^*_e = B50R_e$ colors and differences, ΔE^*,	input: $rgb/cmyk \rightarrow rgb_e$ output: transfer to $cmyk_e$ 

n	HIC-Fe	rgb-Fe	icL-Fe	hsa-Fe	rgb*Fe	LabCh*Fe	LabCh**Fe	rgb**Fe	hsa**Fe	DF*Fe	LabCh**Fe	LabCh***Fe	rgb***Fe	LabCh****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh*****Fe	LabCh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n	HIC*Fe	rgb*Fe	icL*Fe	hsa*Fe	rgb*Fe	LabCH*Fe	LabCH*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsa*Fe	rgb*Fe	LabCH*Fe
567	R0Y0.087.087e	0.875 0.0 0.125	0.875 0.875 0.437	390	0.875 0.0 0.23	44.5 49.0	23.3	54.3	25.4	0.875 0.0 0.125	43.6 51.3	31.6	60.2
568	R36Y.087.087e	0.875 0.0 0.125	0.875 0.875 0.437	382	0.875 0.0 0.357	44.5 49.0	23.3	54.3	25.4	0.875 0.0 0.125	43.6 51.3	31.6	60.2
569	R23Y.087.087e	0.875 0.0 0.25	0.875 0.875 0.437	374	0.875 0.0 0.469	44.8 55.5	-2.2	52.9	7.6	0.875 0.0 0.25	43.0 51.3	26.3	57.5
570	R08Y.087.087e	0.875 0.0 0.375	0.875 0.875 0.437	365	0.875 0.0 0.608	45.5	-7.7	57.8	352.3	0.875 0.0 0.375	43.3 51.3	26.3	57.5
571	B70R.087.087e	0.875 0.0 0.5	0.875 0.875 0.437	355	0.875 0.0 0.716	46.2 57.2	-15.2	54.6	343.3	0.875 0.0 0.5	43.4 55.6	1.4	9.6
572	B63R.087.087e	0.875 0.0 0.625	0.875 0.875 0.437	346	0.875 0.0 0.875	46.2 57.2	-20.5	50.8	336.1	0.875 0.0 0.625	43.8 59.4	-6.7	59.8
573	B56R.087.087e	0.875 0.0 0.75	0.875 0.875 0.437	338	0.875 0.0 1.0	46.2 57.2	-24.9	47.9	328.6	0.875 0.0 0.75	45.4 60.7	-12.7	62.1
574	B50R.087.087e	0.875 0.0 1.0	0.875 0.875 0.437	330	0.875 0.0 1.0	46.2 57.2	-32.4	45.6	321.9	0.875 0.0 1.0	45.6 60.7	-16.8	61.4
575	B44R.100.100e	0.875 0.0 1.0	0.875 0.875 0.437	323	0.875 0.011 0.0	45.0 49.0	-34.1	46.4	314.3	0.875 0.0 1.0	45.6 60.7	-17.3	62.6
576	R13Y.087.087e	0.875 0.0125 0.125	0.875 0.75 0.5	308	0.875 0.011 0.0	45.0 49.0	-34.1	46.4	314.3	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
577	R00Y.087.075e	0.875 0.0125 0.125	0.875 0.75 0.5	300	0.875 0.125 0.322	50.6 42.0	-20.0	46.5	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
578	R33Y.087.087e	0.875 0.0125 0.125	0.875 0.75 0.5	291	0.875 0.125 0.442	50.6 42.0	-21.9	45.4	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
579	R26Y.087.087e	0.875 0.0125 0.125	0.875 0.75 0.5	284	0.875 0.125 0.566	50.6 42.0	-24.9	43.8	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
580	R19Y.087.087e	0.875 0.0125 0.125	0.875 0.75 0.5	277	0.875 0.125 0.690	50.6 42.0	-28.9	42.2	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
581	B65R.087.075e	0.875 0.0125 0.125	0.875 0.75 0.5	269	0.875 0.125 0.814	50.6 42.0	-32.9	40.5	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
582	B57R.087.075e	0.875 0.0125 0.125	0.875 0.75 0.5	262	0.875 0.125 0.938	50.6 42.0	-36.9	38.8	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
583	B50R.087.075e	0.875 0.0125 0.125	0.875 0.75 0.5	255	0.875 0.125 1.062	50.6 42.0	-40.9	37.1	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
584	B43R.100.087e	0.875 0.0125 0.125	0.875 0.75 0.5	248	0.875 0.125 1.186	50.6 42.0	-44.9	35.4	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
585	R26Y.087.087e	0.875 0.0125 0.125	0.875 0.75 0.5	241	0.875 0.125 1.310	50.6 42.0	-48.9	33.7	25.4	0.875 0.0125 0.125	40.7 50.4	46.7	68.7
586	R15Y.087.075e	0.875 0.025 0.125	0.875 0.75 0.5	234	0.875 0.125 1.434	50.6 42.0	-52.9	32.0	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
587	R00Y.087.062e	0.875 0.025 0.125	0.875 0.75 0.5	227	0.875 0.125 1.558	50.6 42.0	-56.9	30.3	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
588	R11Y.087.062e	0.875 0.025 0.125	0.875 0.75 0.5	220	0.875 0.125 1.682	50.6 42.0	-60.9	28.6	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
589	B69R.087.062e	0.875 0.025 0.125	0.875 0.75 0.5	213	0.875 0.125 1.806	50.6 42.0	-64.9	26.9	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
590	B59R.087.062e	0.875 0.025 0.125	0.875 0.75 0.5	206	0.875 0.125 1.930	50.6 42.0	-68.9	25.2	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
591	B59R.087.062e	0.875 0.025 0.125	0.875 0.75 0.5	199	0.875 0.125 2.054	50.6 42.0	-72.9	23.5	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
592	B42R.100.075e	0.875 0.025 0.125	0.875 0.75 0.5	192	0.875 0.125 2.178	50.6 42.0	-76.9	21.8	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
593	B42R.100.075e	0.875 0.025 0.125	0.875 0.75 0.5	185	0.875 0.125 2.302	50.6 42.0	-80.9	20.1	25.4	0.875 0.025 0.125	40.7 50.4	46.7	68.7
594	R11Y.087.087e	0.875 0.0375 0.125	0.875 0.75 0.5	178	0.875 0.125 2.426	50.6 42.0	-84.9	18.4	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
595	R18Y.087.087e	0.875 0.0375 0.125	0.875 0.75 0.5	171	0.875 0.125 2.550	50.6 42.0	-88.9	16.7	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
596	R00Y.087.050e	0.875 0.0375 0.125	0.875 0.75 0.5	164	0.875 0.125 2.674	50.6 42.0	-92.9	15.0	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
597	R26Y.087.050e	0.875 0.0375 0.125	0.875 0.75 0.5	157	0.875 0.125 2.798	50.6 42.0	-96.9	13.3	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
598	R00Y.087.050e	0.875 0.0375 0.125	0.875 0.75 0.5	150	0.875 0.125 2.922	50.6 42.0	-100.9	11.6	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
599	B61R.087.050e	0.875 0.0375 0.125	0.875 0.75 0.5	143	0.875 0.125 3.046	50.6 42.0	-104.9	9.9	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
600	B40R.100.062e	0.875 0.0375 0.125	0.875 0.75 0.5	136	0.875 0.125 3.170	50.6 42.0	-108.9	8.2	25.4	0.875 0.0375 0.125	40.7 50.4	46.7	68.7
601	R58Y.087.087e	0.875 0.05 0.125	0.875 0.75 0.5	129	0.875 0.125 3.294	50.6 42.0	-112.9	6.5	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
602	R58Y.087.087e	0.875 0.05 0.125	0.875 0.75 0.5	122	0.875 0.125 3.418	50.6 42.0	-116.9	4.8	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
603	R58Y.087.087e	0.875 0.05 0.125	0.875 0.75 0.5	115	0.875 0.125 3.542	50.6 42.0	-120.9	3.1	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
604	R58Y.087.087e	0.875 0.05 0.125	0.875 0.75 0.5	108	0.875 0.125 3.666	50.6 42.0	-124.9	1.4	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
605	R58Y.087.087e	0.875 0.05 0.125	0.875 0.75 0.5	101	0.875 0.125 3.790	50.6 42.0	-128.9	-0.3	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
606	R38Y.087.062e	0.875 0.05 0.125	0.875 0.75 0.5	94	0.875 0.125 3.914	50.6 42.0	-132.9	-2.0	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
607	R00Y.087.037e	0.875 0.05 0.125	0.875 0.75 0.5	87	0.875 0.125 4.038	50.6 42.0	-136.9	-3.7	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
608	R18Y.087.037e	0.875 0.05 0.125	0.875 0.75 0.5	80	0.875 0.125 4.162	50.6 42.0	-140.9	-5.4	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
609	B65R.087.037e	0.875 0.05 0.125	0.875 0.75 0.5	73	0.875 0.125 4.286	50.6 42.0	-144.9	-7.1	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
610	B38R.100.050e	0.875 0.05 0.125	0.875 0.75 0.5	66	0.875 0.125 4.410	50.6 42.0	-148.9	-8.8	25.4	0.875 0.05 0.125	40.7 50.4	46.7	68.7
611	R73Y.087.087e	0.875 0.0625 0.125	0.875 0.75 0.5	59	0.875 0.125 4.534	50.6 42.0	-152.9	-10.5	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
612	R68Y.087.075e	0.875 0.0625 0.125	0.875 0.75 0.5	52	0.875 0.125 4.658	50.6 42.0	-156.9	-12.2	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
613	R61Y.087.062e	0.875 0.0625 0.125	0.875 0.75 0.5	45	0.875 0.125 4.782	50.6 42.0	-160.9	-13.9	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
614	R61Y.087.062e	0.875 0.0625 0.125	0.875 0.75 0.5	38	0.875 0.125 4.906	50.6 42.0	-164.9	-15.6	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
615	R50Y.087.050e	0.875 0.0625 0.125	0.875 0.75 0.5	31	0.875 0.125 5.030	50.6 42.0	-168.9	-17.3	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
616	R31Y.087.037e	0.875 0.0625 0.125	0.875 0.75 0.5	24	0.875 0.125 5.154	50.6 42.0	-172.9	-19.0	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
617	R00Y.087.025e	0.875 0.0625 0.125	0.875 0.75 0.5	17	0.875 0.125 5.278	50.6 42.0	-176.9	-20.7	25.4	0.875 0.0625 0.125	40.7 50.4	46.7	68.7
618	R00Y.087.025e	0.875 0.0625 0.125	0.875 0.75 0.5	10	0.875 0.125 5.402	50.6 42.0	-180.9	-22.4	25.4	0.875 0.0625 0.125			



TUB material: code=rha4ta

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

TTUB-test chart RE39; hue code: $H^*_e=B50R_e$
colors and differences, ΔE^* ,

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

[illegible]

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1-0132730-F0



TUB registration: 20150701-RE39/RE39L0NA.TXT /.PS TUB material: code=rha4ta
- application for measurement of laser printer output, separation cmyn6 (CMYK)

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

[illegible]

TUB registration: 20150701-RE39/RE39L0NA.TXT /PS
application for measurement of laser printer output, separation cmyn6 (CMYK)

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmetrik/RE39/RE39.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmetrik/RE39/RE39L0NA.TXT> /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fe	rgb*Fe	ic*Fe	hsa_Fa	rgb*Fe	LabCh*Fe	LabCh*Fe	rgb*Fe	DE*Fe	hsa_Fe	rgb*Fe	LabCh*Me	LabCh*Me
1053	NW_086e	0.866 0.866 0.866	0.866 0.866 0.866	360	0.866 0.866 0.866	86.1 0.0 0.0	90.6 0.0 0.0	0.866 0.866 0.866	4.4	360	0.866 0.866 0.866	95.8 0.0 0.0	95.8 0.0 0.0
1054	NW_093e	0.933 0.933 0.933	0.933 0.933 0.933	360	0.933 0.933 0.933	91.0 0.0 0.0	94.4 0.0 0.0	0.933 0.933 0.933	3.4	360	0.933 0.933 0.933	95.8 0.0 0.0	95.8 0.0 0.0
1055	NW_100e	1.0 1.0 1.0	1.0 1.0 1.0	360	1.0 1.0 1.0	95.8 0.0 0.0	98.8 0.0 0.0	1.0 1.0 1.0	0.0	360	1.0 1.0 1.0	95.8 0.0 0.0	95.8 0.0 0.0
1056	NW_000e	0.0 0.0 0.0	0.0 0.0 0.0	360	0.0 0.0 0.0	23.8 0.0 0.0	18.1 0.0 0.0	0.0 0.0 0.0	0.2	360	0.0 0.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1057	NW_006e	0.066 0.066 0.066	0.066 0.066 0.066	360	0.066 0.066 0.066	23.8 0.0 0.0	21.5 0.1 0.1	0.066 0.066 0.066	0.066	360	0.066 0.066 0.066	95.8 0.0 0.0	95.8 0.0 0.0
1058	NW_013e	0.133 0.133 0.133	0.133 0.133 0.133	360	0.133 0.133 0.133	33.4 0.0 0.0	28.9 0.0 0.0	0.133 0.133 0.133	0.133	360	0.133 0.133 0.133	95.8 0.0 0.0	95.8 0.0 0.0
1059	NW_020e	0.2 0.2 0.2	0.2 0.2 0.2	360	0.2 0.2 0.2	38.2 0.0 0.0	37.3 0.0 0.0	0.2 0.2 0.2	0.2	360	0.2 0.2 0.2	95.8 0.0 0.0	95.8 0.0 0.0
1060	NW_026e	0.266 0.266 0.266	0.266 0.266 0.266	360	0.266 0.266 0.266	42.9 0.0 0.0	44.2 0.0 0.0	0.266 0.266 0.266	0.266	360	0.266 0.266 0.266	95.8 0.0 0.0	95.8 0.0 0.0
1061	NW_033e	0.333 0.333 0.333	0.333 0.333 0.333	360	0.333 0.333 0.333	47.8 0.0 0.0	49.9 0.0 0.0	0.333 0.333 0.333	0.333	360	0.333 0.333 0.333	95.8 0.0 0.0	95.8 0.0 0.0
1062	NW_040e	0.4 0.4 0.4	0.4 0.4 0.4	360	0.4 0.4 0.4	52.6 0.0 0.0	53.8 0.0 0.0	0.4 0.4 0.4	0.4	360	0.4 0.4 0.4	95.8 0.0 0.0	95.8 0.0 0.0
1063	NW_046e	0.466 0.466 0.466	0.466 0.466 0.466	360	0.466 0.466 0.466	57.3 0.0 0.0	58.7 0.0 0.0	0.466 0.466 0.466	0.466	360	0.466 0.466 0.466	95.8 0.0 0.0	95.8 0.0 0.0
1064	NW_053e	0.533 0.533 0.533	0.533 0.533 0.533	360	0.533 0.533 0.533	62.2 0.0 0.0	65.4 0.0 0.0	0.533 0.533 0.533	0.533	360	0.533 0.533 0.533	95.8 0.0 0.0	95.8 0.0 0.0
1065	NW_060e	0.6 0.6 0.6	0.6 0.6 0.6	360	0.6 0.6 0.6	67.0 0.0 0.0	70.2 0.0 0.0	0.6 0.6 0.6	0.6	360	0.6 0.6 0.6	95.8 0.0 0.0	95.8 0.0 0.0
1066	NW_066e	0.666 0.666 0.666	0.666 0.666 0.666	360	0.666 0.666 0.666	71.7 0.0 0.0	75.5 0.0 0.0	0.666 0.666 0.666	0.666	360	0.666 0.666 0.666	95.8 0.0 0.0	95.8 0.0 0.0
1067	NW_073e	0.734 0.734 0.734	0.734 0.734 0.734	360	0.734 0.734 0.734	76.6 0.0 0.0	80.8 0.0 0.0	0.734 0.734 0.734	0.734	360	0.734 0.734 0.734	95.8 0.0 0.0	95.8 0.0 0.0
1068	NW_080e	0.8 0.8 0.8	0.8 0.8 0.8	360	0.8 0.8 0.8	81.4 0.0 0.0	85.3 0.0 0.0	0.8 0.8 0.8	0.8	360	0.8 0.8 0.8	95.8 0.0 0.0	95.8 0.0 0.0
1069	NW_086e	0.866 0.866 0.866	0.866 0.866 0.866	360	0.866 0.866 0.866	86.1 0.0 0.0	90.2 0.0 0.0	0.866 0.866 0.866	0.866	360	0.866 0.866 0.866	95.8 0.0 0.0	95.8 0.0 0.0
1070	NW_093e	0.933 0.933 0.933	0.933 0.933 0.933	360	0.933 0.933 0.933	91.0 0.0 0.0	94.2 0.0 0.0	0.933 0.933 0.933	0.933	360	0.933 0.933 0.933	95.8 0.0 0.0	95.8 0.0 0.0
1071	NW_100e	1.0 1.0 1.0	1.0 1.0 1.0	360	1.0 1.0 1.0	95.8 0.0 0.0	98.8 0.0 0.0	1.0 1.0 1.0	0.0	360	1.0 1.0 1.0	95.8 0.0 0.0	95.8 0.0 0.0
1072	NW_000e	0.0 0.0 0.0	0.0 0.0 0.0	360	0.0 0.0 0.0	23.8 0.0 0.0	18.1 0.0 0.0	0.0 0.0 0.0	0.2	360	0.0 0.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1073	NW_006e	0.066 0.066 0.066	0.066 0.066 0.066	360	0.066 0.066 0.066	23.8 0.0 0.0	21.5 0.1 0.1	0.066 0.066 0.066	0.066	360	0.066 0.066 0.066	95.8 0.0 0.0	95.8 0.0 0.0
1074	ROY_100_100e	1.0 0.0 0.0	1.0 0.0 0.0	360	1.0 0.0 0.0	95.8 0.0 0.0	98.8 0.0 0.0	1.0 0.0 0.0	0.2	360	1.0 0.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1075	G50B_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	360	0.0 1.0 0.0	23.8 0.0 0.0	18.1 0.0 0.0	0.0 1.0 0.0	0.2	360	0.0 1.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1076	Y06B_100_100e	0.0 0.0 1.0	0.0 0.0 1.0	360	0.0 0.0 1.0	23.8 0.0 0.0	21.5 0.1 0.1	0.0 0.0 1.0	0.2	360	0.0 0.0 1.0	95.8 0.0 0.0	95.8 0.0 0.0
1077	B00B_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	360	0.0 1.0 0.0	53.6 0.0 0.0	58.7 0.0 0.0	0.0 1.0 0.0	0.2	360	0.0 1.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1078	B00B_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	360	0.0 1.0 0.0	53.6 0.0 0.0	58.7 0.0 0.0	0.0 1.0 0.0	0.2	360	0.0 1.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0
1079	B50B_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	360	0.0 1.0 0.0	53.6 0.0 0.0	58.7 0.0 0.0	0.0 1.0 0.0	0.2	360	0.0 1.0 0.0	95.8 0.0 0.0	95.8 0.0 0.0

Mean color difference of this page:

delta E* = 6.3

I-0133230-F0

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TUB-test chart RE39; hue code: H*_e=B50R_e
colors and differences, ΔE*

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