

voir fichiers similaires: <http://130.149.60.45/~farbmetrik/QF99/QF99.HTM>  
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 234/360 = 0.65$

$H^*_- = G50B_-$

Données de couleurs périphériques (d)

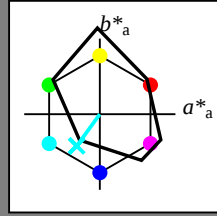
ou élémentaires (e):

$HIC^*_-$

code de teinte pour les couleurs de cette page:

$H^*_- = G50B_-$

triangle de luminosité  $T^*$



FRS06a; données CIELAB (a) adaptées

| nom                | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------------|---------|--------------|--------------|
| R <sub>-,Ma</sub>  | 32.5              | 62.3    | 46.4         | 77.7         |
| Y <sub>-,Ma</sub>  | 82.7              | -3.1    | 113.9        | 114.0        |
| G <sub>-,Ma</sub>  | 39.4              | -61.8   | 45.8         | 76.9         |
| C <sub>-,Ma</sub>  | 47.8              | -26.8   | -34.2        | 43.4         |
| B <sub>-,Ma</sub>  | 10.1              | 55.1    | -61.0        | 82.2         |
| M <sub>-,Ma</sub>  | 34.5              | 80.6    | -33.9        | 87.5         |
| N <sub>-,Ma</sub>  | 6.2               | 0.0     | 0.0          | 0.0          |
| W <sub>-,Ma</sub>  | 91.9              | 0.0     | 0.0          | 0.0          |
| R <sub>-,CIE</sub> | 39.9              | 58.7    | 27.9         | 65.0         |
| Y <sub>-,CIE</sub> | 81.2              | -2.8    | 71.5         | 71.6         |
| G <sub>-,CIE</sub> | 52.2              | -42.4   | 13.6         | 44.5         |
| B <sub>-,CIE</sub> | 30.5              | 1.4     | -46.4        | 46.4         |

Les données de couleur maximale (Ma):

$LabCh^*_{-,Ma}$ : 63 -30 -42 51 234

$HIC^*_{-,Ma}$ : G50B\_100\_100\_

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

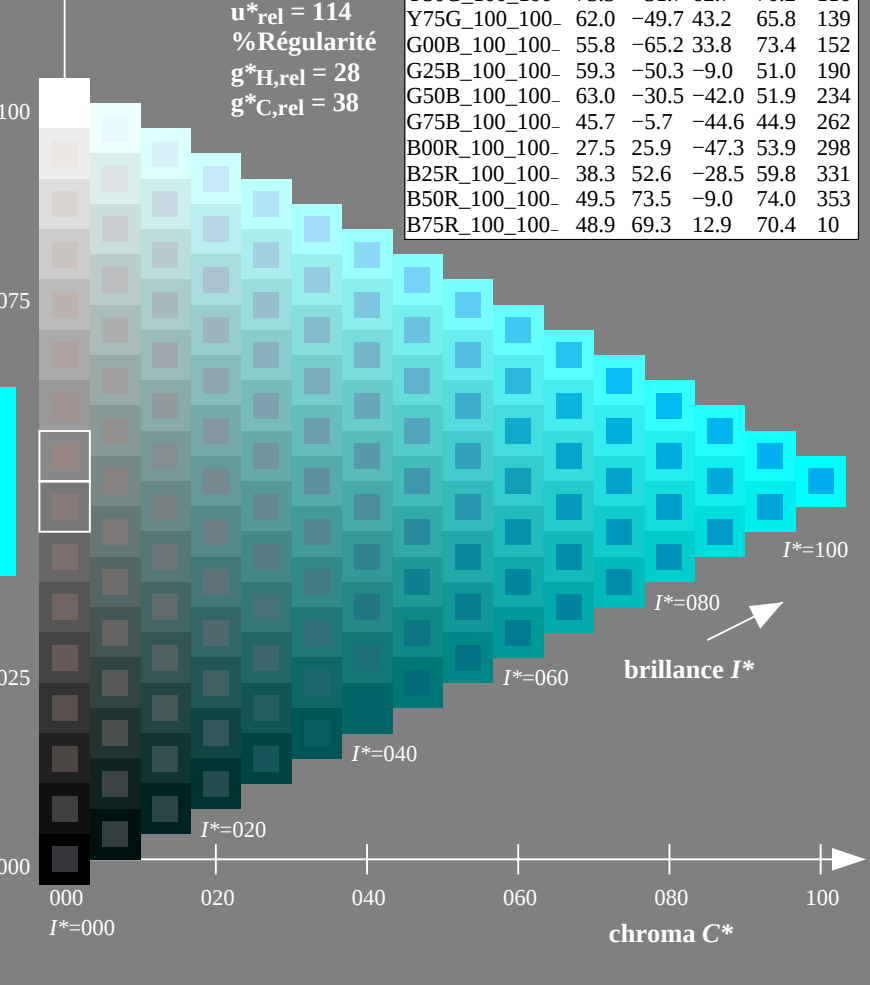
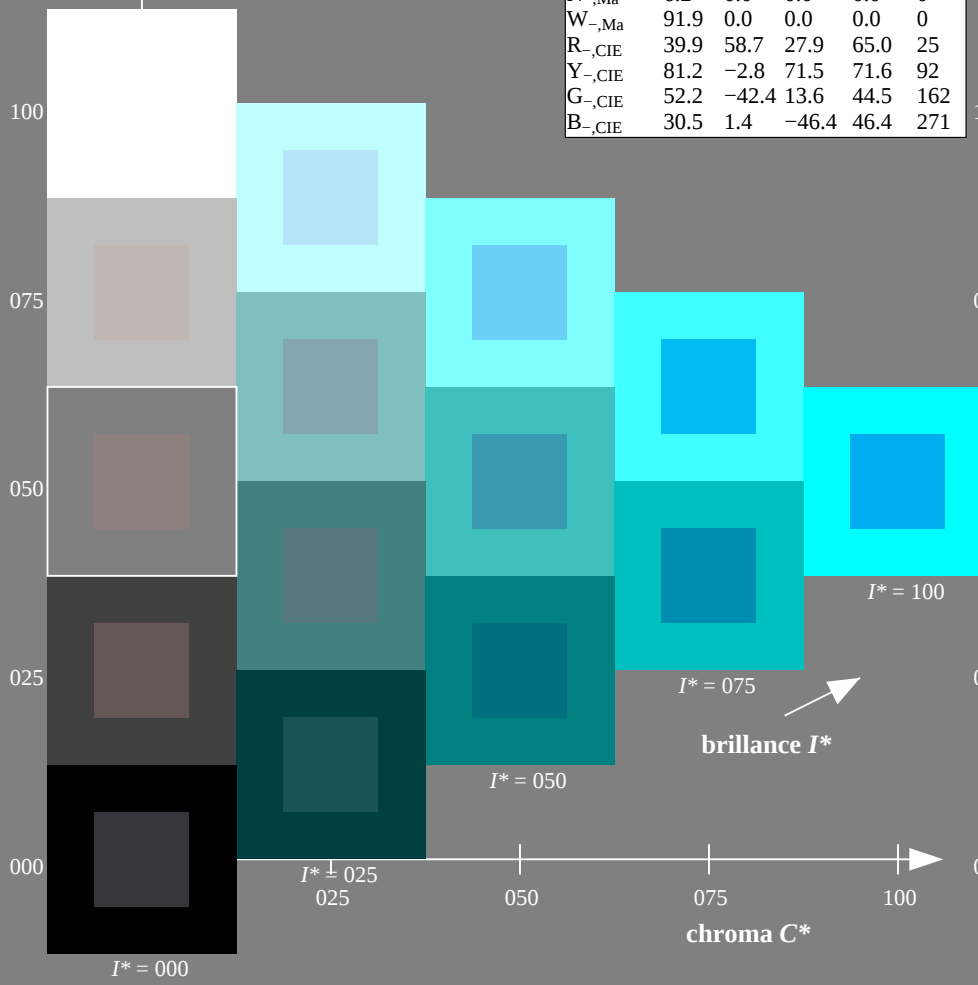
0.0 1.0 1.0 1.0 1.0

triangle de luminosité  $T^*$

% Gamme  
 $u^*_{rel} = 114$   
% Régularité  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

ORS20a; données CIELAB (a) adaptées

| $H^*_-$       | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---------------|-------------------|---------|--------------|--------------|
| R00Y_100_100_ | 48.4              | 66.1    | 40.2         | 77.3         |
| R25Y_100_100_ | 56.8              | 48.0    | 50.5         | 69.6         |
| R50Y_100_100_ | 68.6              | 25.0    | 63.9         | 68.6         |
| R75Y_100_100_ | 80.6              | 4.8     | 77.2         | 77.3         |
| Y00G_100_100_ | 90.2              | -9.6    | 88.2         | 88.7         |
| Y25G_100_100_ | 83.2              | -18.4   | 79.9         | 81.9         |
| Y50G_100_100_ | 73.3              | -31.7   | 62.7         | 70.2         |
| Y75G_100_100_ | 62.0              | -49.7   | 43.2         | 65.8         |
| G00B_100_100_ | 55.8              | -65.2   | 33.8         | 73.4         |
| G25B_100_100_ | 59.3              | -50.3   | -9.0         | 51.0         |
| G50B_100_100_ | 63.0              | -30.5   | -42.0        | 51.9         |
| G75B_100_100_ | 45.7              | -5.7    | -44.6        | 44.9         |
| B00R_100_100_ | 27.5              | 25.9    | -47.3        | 53.9         |
| B25R_100_100_ | 38.3              | 52.6    | -28.5        | 59.8         |
| B50R_100_100_ | 49.5              | 73.5    | -9.0         | 74.0         |
| B75R_100_100_ | 48.9              | 69.3    | 12.9         | 70.4         |



3-003030-L0 QF990-7N

graphique TUB-QF99; code de teinte:  $H^*_-=G50B_-$   
graphique conforme à DIN 33872, 3D=0, de=0, cmyk

entrée :  $rgb/cmyk \rightarrow rgb/cmyk$   
sortie : aucun changement

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS  
application pour la mesure des sorties sur imprimante laser

TUB matériel: code=rha4ta

voir fichiers similaires: <http://130.149.60.45/~farbmetrik/QF99/QF99.HTM>  
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 235/360 = 0.65$

Données de couleurs périphériques (d)

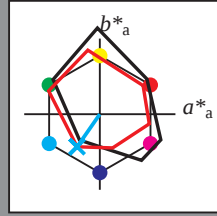
ou élémentaires (e):

$HIC^*_d$

code de teinte pour les couleurs de cette page:

$H^*_d = G50B_d$

triangle de luminosité  $T^*$



**LRS18a; données CIELAB (a) adaptées**

| nom         | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------------|---------|--------------|--------------|
| $R_{d,Ma}$  | 47.5              | 57.2    | 37.8         | 68.6         |
| $Y_{d,Ma}$  | 91.5              | -15.8   | 84.6         | 86.1         |
| $G_{d,Ma}$  | 54.3              | -67.6   | 30.8         | 74.3         |
| $C_{d,Ma}$  | 53.1              | -30.0   | -43.1        | 52.5         |
| $B_{d,Ma}$  | 32.5              | 16.9    | -44.6        | 47.7         |
| $M_{d,Ma}$  | 48.1              | 65.4    | -12.7        | 66.6         |
| $N_{d,Ma}$  | 23.8              | 0.0     | 0.0          | 0.0          |
| $W_{d,Ma}$  | 95.8              | 0.0     | 0.0          | 0.0          |
| $R_{d,CIE}$ | 39.9              | 58.7    | 27.9         | 65.0         |
| $Y_{d,CIE}$ | 81.2              | -2.8    | 71.5         | 71.6         |
| $G_{d,CIE}$ | 52.2              | -42.4   | 13.6         | 44.5         |
| $B_{d,CIE}$ | 30.5              | 1.4     | -46.4        | 46.4         |

$H^*_d = G50B_d$

Les données de couleur maximale (Ma):

$LabCh^*_{d,Ma}$ : 53 -30 -43 52 235

$HIC^*_{d,Ma}$ : G50B\_100\_100d

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

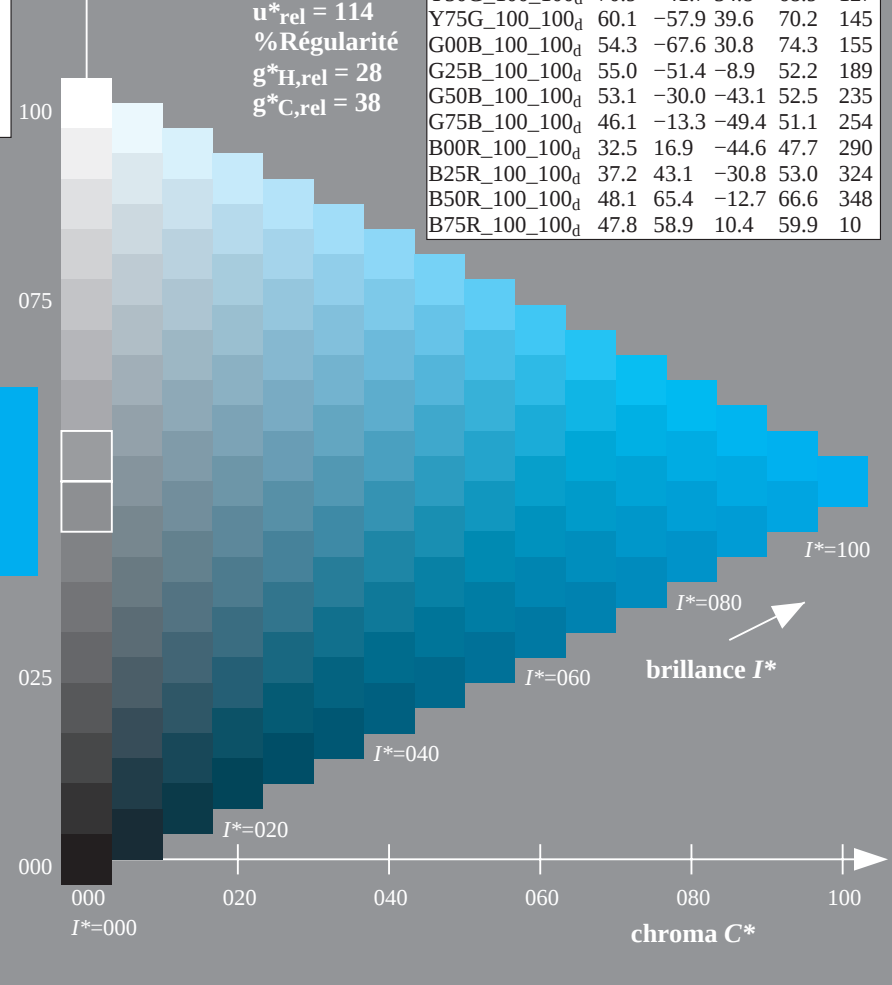
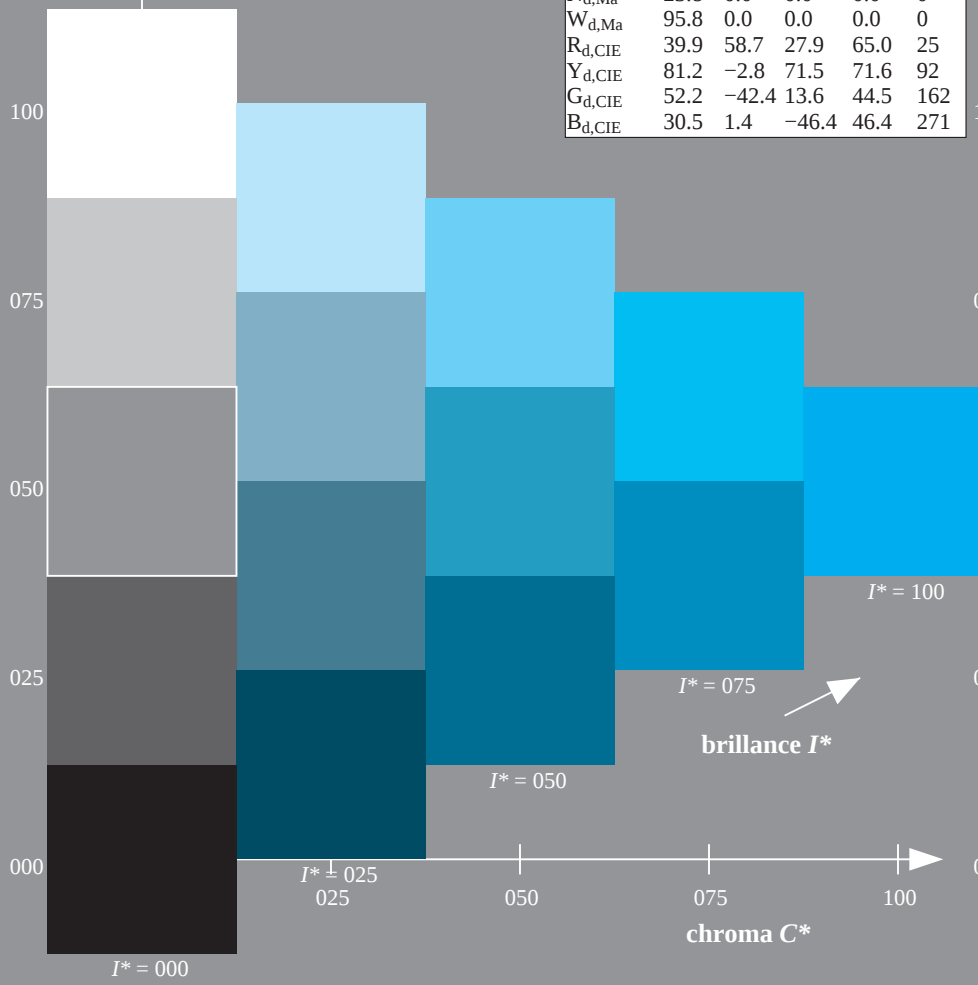
0.0 1.0 1.0 1.0 1.0

triangle de luminosité  $T^*$

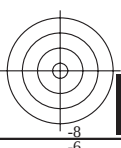
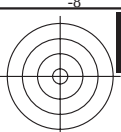
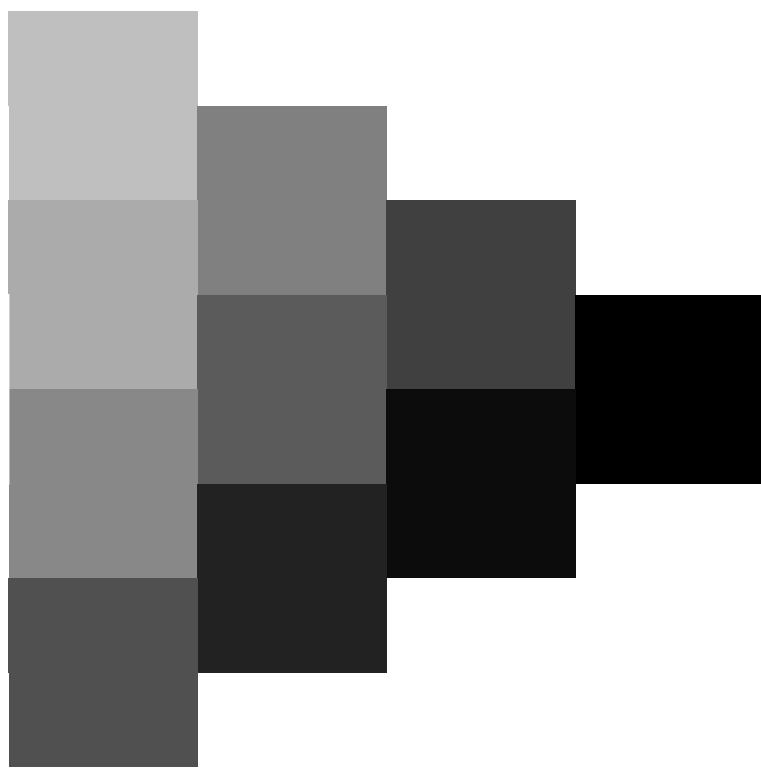
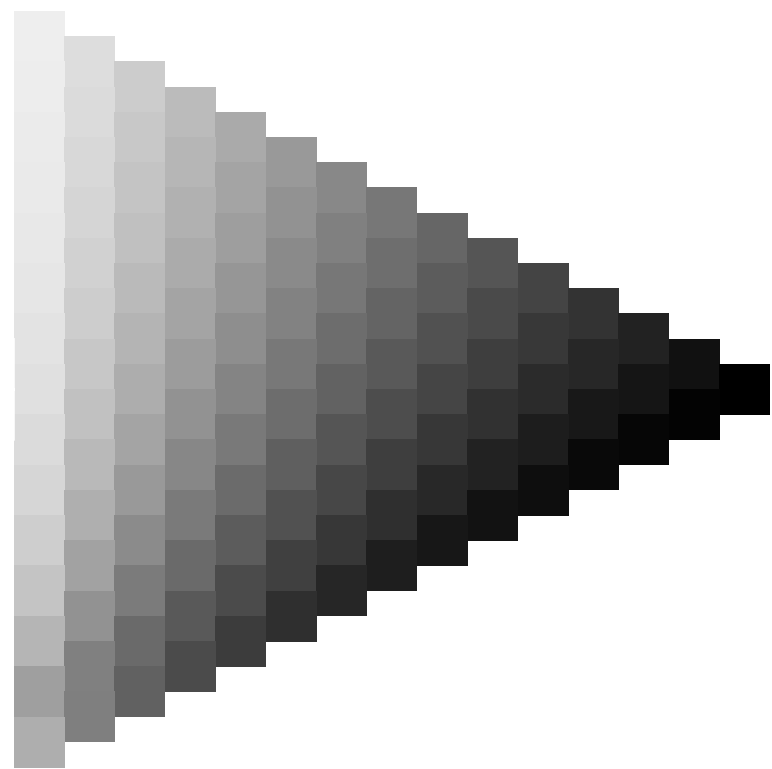
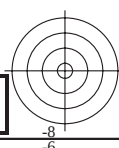
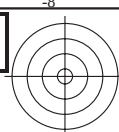
% Gamme  
 $u^*_{rel} = 114$   
% Régularité  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

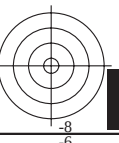
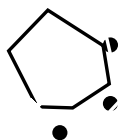
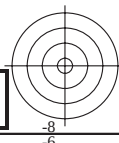
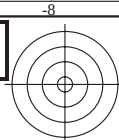
**LRS18a; données CIELAB (a) adaptées**

| $H^*_d$            | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------------|---------|--------------|--------------|
| $R00Y_{100_100_d}$ | 47.5              | 57.2    | 37.8         | 68.6         |
| $R25Y_{100_100_d}$ | 57.4              | 43.5    | 54.5         | 69.7         |
| $R50Y_{100_100_d}$ | 70.5              | 19.2    | 66.2         | 69.0         |
| $R75Y_{100_100_d}$ | 83.5              | -2.9    | 76.8         | 76.9         |
| $Y00G_{100_100_d}$ | 91.5              | -15.8   | 84.6         | 86.1         |
| $Y25G_{100_100_d}$ | 90.4              | -20.9   | 86.5         | 89.0         |
| $Y50G_{100_100_d}$ | 70.9              | -41.7   | 54.8         | 68.9         |
| $Y75G_{100_100_d}$ | 60.1              | -57.9   | 39.6         | 70.2         |
| $G00B_{100_100_d}$ | 54.3              | -67.6   | 30.8         | 74.3         |
| $G25B_{100_100_d}$ | 55.0              | -51.4   | -8.9         | 52.2         |
| $G50B_{100_100_d}$ | 53.1              | -30.0   | -43.1        | 52.5         |
| $G75B_{100_100_d}$ | 46.1              | -13.3   | -49.4        | 51.1         |
| $B00R_{100_100_d}$ | 32.5              | 16.9    | -44.6        | 47.7         |
| $B25R_{100_100_d}$ | 37.2              | 43.1    | -30.8        | 53.0         |
| $B50R_{100_100_d}$ | 48.1              | 65.4    | -12.7        | 66.6         |
| $B75R_{100_100_d}$ | 47.8              | 58.9    | 10.4         | 59.9         |



TUB enregistrement: 20130201-QF99/QF99L0NA.TXT /.PS TUB matériel: code=rha4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyk6 (CMYK)



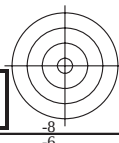
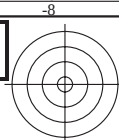


3-003330-L0 QF990-70

graphique TUB-QF99; code de teinte:  $H^*_d=G50B_d$   
graphique conforme à DIN 33872, 3D=0, de=0, cmyk

entrée :  $rgb/cmyk \rightarrow rgb_d$   
sortie : transférer à  $cmyk_d$

3-003330-F0



3-003430-L0 QF990-70

graphique TUB-QF99; code de teinte:  $H^*_d=G50B_d$   
graphique conforme à DIN 33872, 3D=0, de=0, cmyk

entrée :  $rgb/cmyk \rightarrow rgb_d$   
sortie : transférer à  $cmyk_d$

3-003430-E0

Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 235/360 = 0.65$

$H^*_d = G50B_d$

Données de couleurs périphériques (d)

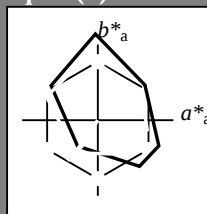
ou élémentaires (e):

$HIC^*_d$

code de teinte pour les couleurs de cette page:

$H^*_d = G50B_d$

triangle de luminosité  $T^*$



LRS18a; données CIELAB (a) adaptées

| nom         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------|---------|---------|--------------|--------------|
| $R_{d,Ma}$  | 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          |

Les données de couleur maximale (Ma):

$LabCh^*_{d,Ma}$ : 53 -30 -43 52 235

$HIC^*_{d,Ma}$ : G50B\_100\_100d

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

0.0 1.0 1.0 1.0 1.0

triangle de luminosité  $T^*$

% Gamme

$u^*_{rel} = 114$

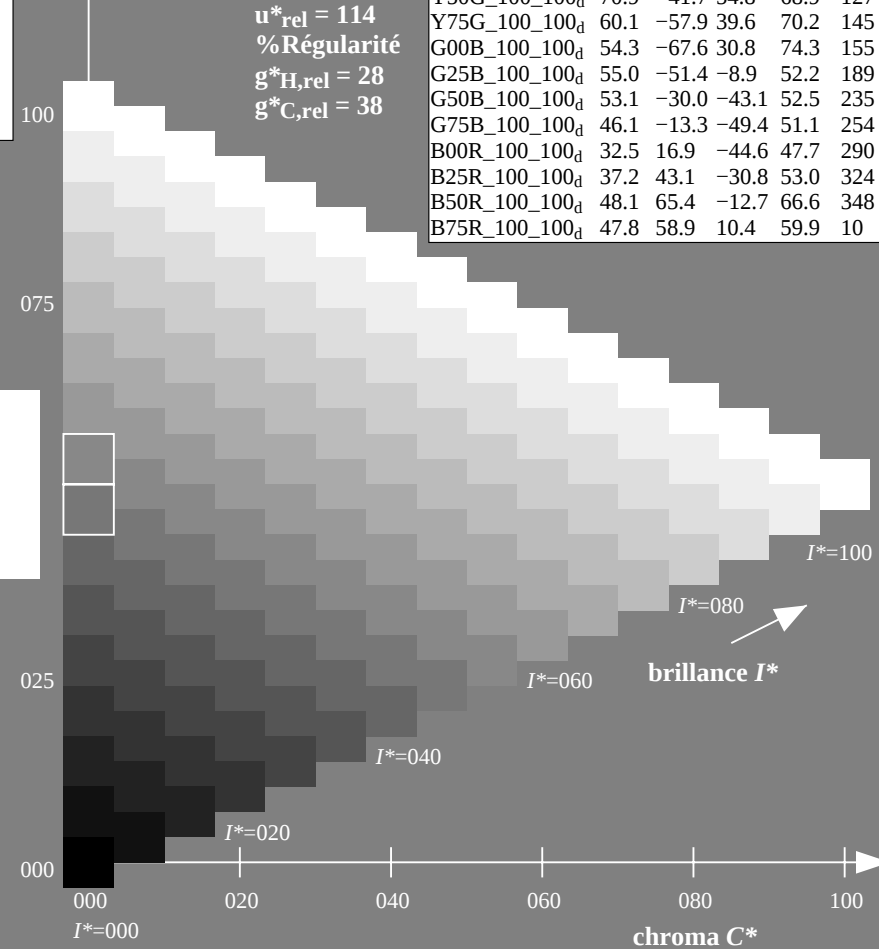
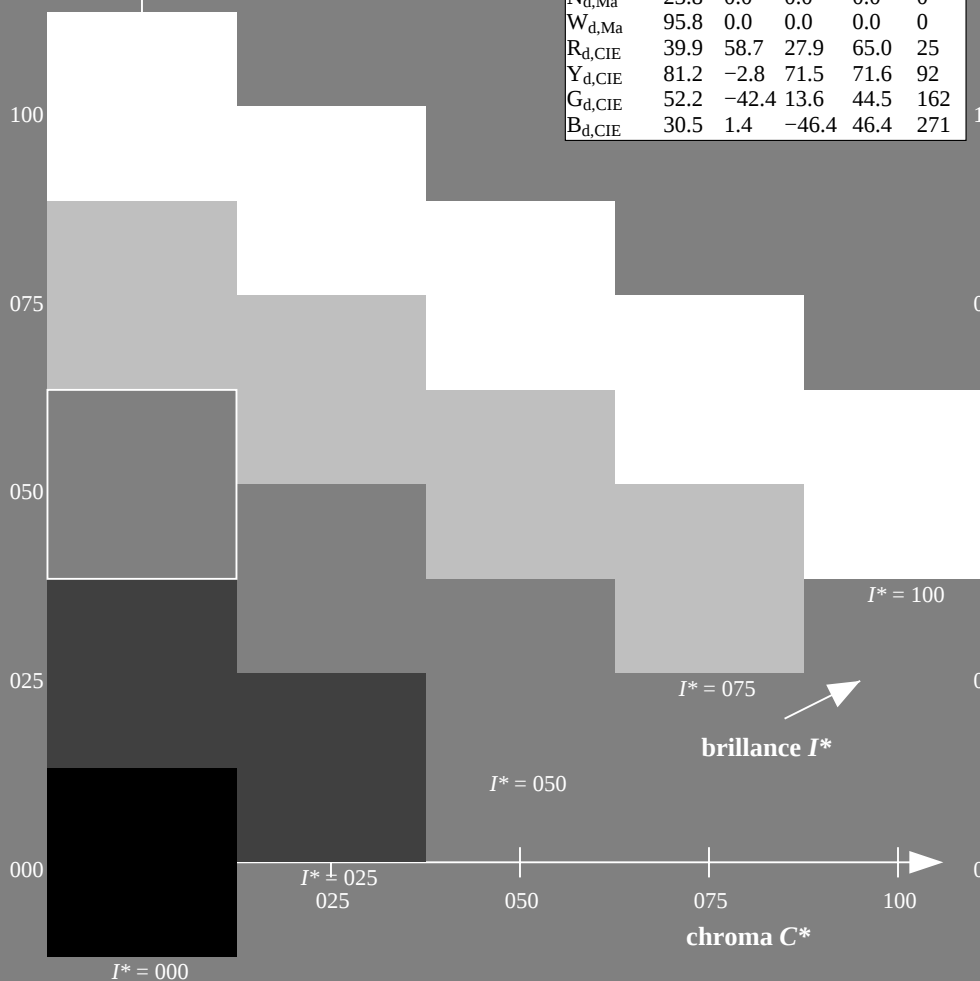
% Régularité

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

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

LRS18a; données CIELAB (a) adaptées

| $H^*_d$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y_{100_100_d}$ | 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           |



graphique TUB-QF99; code de teinte:  $H^*_d = G50B_d$   
graphique conforme à DIN 33872, 3D=0, de=0, cmyk

entrée :  $rgb/cmyk \rightarrow rgb_d$   
sortie : transférer à  $cmyk_d$

Couleur maximale dans le système colorimétrique : Laser printer output; separation cmy6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$   
 $LCH^*_d = 91.5 \ 86.1 \ 100.5$   
 $LAB^*_d = 91.5 \ -15.8 \ 84.6$   
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$   
 $LCH^*_d = 54.3 \ 74.3 \ 155.5$   
 $LAB^*_d = 54.3 \ -67.6 \ 30.8$   
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$   
 $LCH^*_d = 53.1 \ 52.5 \ 235.1$   
 $LAB^*_d = 53.1 \ -30.0 \ -43.1$   
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$   
 $LCH^*_d = 47.5 \ 68.6 \ 33.4$   
 $LAB^*_d = 47.5 \ 57.2 \ 37.8$   
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$   
 $LCH^*_d = 48.1 \ 66.6 \ 348.9$   
 $LAB^*_d = 48.1 \ 65.4 \ -12.7$   
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$   
 $LCH^*_d = 32.5 \ 47.7 \ 290.8$   
 $LAB^*_d = 32.5 \ 16.9 \ -44.6$   
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

$Y_e$   
 $LCH^*_e = 83.6 \ 76.9 \ 92.3$   
 $LAB^*_e = 83.6 \ -3.1 \ 76.8$   
 $rgb^*_{de} = 1.0 \ 0.768 \ 0.0$

$G_e$   
 $LCH^*_e = 53.8 \ 69.2 \ 162.2$   
 $LAB^*_e = 53.8 \ -65.9 \ 21.1$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.146$

$C_e$   
 $LCH^*_e = 54.9 \ 48.4 \ 216.9$   
 $LAB^*_e = 54.9 \ -38.7 \ -29.1$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.791$

$B_e$   
 $LCH^*_e = 37.3 \ 48.7 \ 271.7$   
 $LAB^*_e = 37.3 \ 1.4 \ -48.6$   
 $rgb^*_{de} = 0.0 \ 0.261 \ 1.0$

$R_e$   
 $LCH^*_e = 47.5 \ 62.1 \ 25.4$   
 $LAB^*_e = 47.5 \ 56.0 \ 26.7$   
 $rgb^*_{de} = 1.0 \ 0.0 \ 0.263$

$M_e$   
 $LCH^*_e = 38.5 \ 54.7 \ 328.6$   
 $LAB^*_e = 38.5 \ 46.7 \ -28.5$   
 $rgb^*_{de} = 0.584 \ 0.0 \ 1.0$

$Y_s$   
 $LCH^*_s = 81.8 \ 76.2 \ 90.0$   
 $LAB^*_s = 81.8 \ 0.0 \ 76.2$   
 $rgb^*_{ds} = 1.0 \ 0.732 \ 0.0$

$G_s$   
 $LCH^*_s = 57.6 \ 70.9 \ 150.0$   
 $LAB^*_s = 57.6 \ -61.4 \ 35.4$   
 $rgb^*_{ds} = 0.145 \ 1.0 \ 0.0$

$C_s$   
 $LCH^*_s = 55.2 \ 48.1 \ 210.0$   
 $LAB^*_s = 55.2 \ -41.7 \ -24.0$   
 $rgb^*_{ds} = 0.0 \ 1.0 \ 0.694$

$R_s$   
 $LCH^*_s = 47.6 \ 65.0 \ 30.0$   
 $LAB^*_s = 47.6 \ 56.3 \ 32.5$   
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.157$

$M_s$   
 $LCH^*_s = 38.9 \ 55.3 \ 330.0$   
 $LAB^*_s = 38.9 \ 47.9 \ -27.6$   
 $rgb^*_{ds} = 0.612 \ 0.0 \ 1.0$

$B_s$   
 $LCH^*_s = 38.0 \ 48.9 \ 270.0$   
 $LAB^*_s = 38.0 \ 0.0 \ -48.9$   
 $rgb^*_{ds} = 0.0 \ 0.283 \ 1.0$

$(a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)$

$rgb^*_d, LCH^*_d, LAB^*_d$

$h_{ab,s}, rgb^*_d$

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

$h_{ab,s}$

$s: h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6)$

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

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

$h_{ab,e}$

$e: h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6)$

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

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

$h_{ab,d}$

$rgb^*_{de}$



Couleur maximale dans le système colorimétrique : Laser printer output; separation cmy6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_c$ ;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six angles de teinte des couleurs périphériques  $RYGCBM_d$ ;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ ;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd64M}$ | $LAB^*_{ddx64M}$ (x=LabCh) |       | $rgb^*_{dex361M}$ | $LAB^*_{dex361M}$ |       | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |
|------------|------------|------------|-----------------|----------------------------|-------|-------------------|-------------------|-------|--------------|--------------|--------------|
| 33.4       | 30.0       | 25.4       | 1.0             | 0.0                        | 0.0   | 47.5              | 57.2              | 37.8  | 68.6         | 33.4         |              |
| 42.1       | 37.5       | 33.8       | 1.0             | 0.125                      | 0.0   | 51.9              | 54.3              | 49.2  | 73.2         | 42.1         |              |
| 52.8       | 45.0       | 42.1       | 1.0             | 0.25                       | 0.0   | 58.2              | 41.8              | 55.1  | 69.2         | 52.8         |              |
| 63.7       | 52.5       | 50.5       | 1.0             | 0.375                      | 0.0   | 64.6              | 29.8              | 60.4  | 67.3         | 63.7         |              |
| 73.8       | 60.0       | 58.8       | 1.0             | 0.5                        | 0.0   | 70.5              | 19.2              | 66.2  | 69.0         | 73.8         |              |
| 80.7       | 67.5       | 67.2       | 1.0             | 0.625                      | 0.0   | 74.9              | 11.4              | 70.7  | 71.6         | 80.7         |              |
| 91.5       | 75.0       | 75.6       | 1.0             | 0.75                       | 0.0   | 82.9              | -2.0              | 76.9  | 77.0         | 91.5         |              |
| 96.8       | 82.5       | 83.9       | 1.0             | 0.875                      | 0.0   | 87.6              | -9.0              | 75.7  | 76.3         | 96.8         |              |
| 100.5      | 90.0       | 92.3       | 1.0             | 1.0                        | 0.0   | 91.5              | -15.8             | 84.6  | 86.1         | 100.5        |              |
| 101.4      | 97.5       | 101.0      | 0.875           | 1.0                        | 0.0   | 92.8              | -18.1             | 89.4  | 91.2         | 101.4        |              |
| 103.9      | 105.0      | 109.7      | 0.75            | 1.0                        | 0.0   | 90.1              | -21.3             | 86.0  | 88.6         | 103.9        |              |
| 115.0      | 112.5      | 118.5      | 0.625           | 1.0                        | 0.0   | 79.9              | -31.7             | 67.9  | 75.0         | 115.0        |              |
| 127.3      | 120.0      | 127.2      | 0.5             | 1.0                        | 0.0   | 70.9              | -41.7             | 54.8  | 68.9         | 127.3        |              |
| 134.7      | 127.5      | 136.0      | 0.375           | 1.0                        | 0.0   | 66.5              | -47.5             | 48.0  | 67.6         | 134.7        |              |
| 144.7      | 135.0      | 144.7      | 0.25            | 1.0                        | 0.0   | 60.6              | -57.2             | 40.4  | 70.1         | 144.7        |              |
| 151.0      | 142.5      | 153.4      | 0.125           | 1.0                        | 0.0   | 57.0              | -62.2             | 34.4  | 71.1         | 151.0        |              |
| 155.5      | 150.0      | 162.2      | 0.0             | 1.0                        | 0.0   | 54.3              | -67.6             | 30.8  | 74.3         | 155.5        |              |
| 160.8      | 157.5      | 169.0      | 0.0             | 1.0                        | 0.125 | 53.8              | -66.4             | 23.0  | 70.2         | 160.8        |              |
| 168.5      | 165.0      | 175.9      | 0.0             | 1.0                        | 0.25  | 53.7              | -63.1             | 12.8  | 64.4         | 168.5        |              |
| 179.9      | 172.5      | 182.7      | 0.0             | 1.0                        | 0.375 | 54.7              | -56.8             | 0.0   | 56.8         | 179.9        |              |
| 189.8      | 180.0      | 189.6      | 0.0             | 1.0                        | 0.5   | 55.0              | -51.4             | -8.9  | 52.2         | 189.8        |              |
| 204.4      | 187.5      | 196.4      | 0.0             | 1.0                        | 0.625 | 55.3              | -44.1             | -20.0 | 48.5         | 204.4        |              |
| 214.4      | 195.0      | 203.2      | 0.0             | 1.0                        | 0.75  | 55.2              | -39.5             | -27.1 | 47.9         | 214.4        |              |
| 221.9      | 202.5      | 210.1      | 0.0             | 1.0                        | 0.875 | 54.4              | -36.7             | -33.0 | 49.4         | 221.9        |              |
| 235.1      | 210.0      | 216.9      | 0.0             | 1.0                        | 1.0   | 53.1              | -30.0             | -43.1 | 52.5         | 235.1        |              |
| 237.9      | 217.5      | 223.8      | 0.0             | 0.875                      | 1.0   | 53.1              | -27.9             | -44.7 | 52.7         | 237.9        |              |
| 241.3      | 225.0      | 230.6      | 0.0             | 0.75                       | 1.0   | 52.9              | -25.9             | -47.5 | 54.1         | 241.3        |              |
| 247.2      | 232.5      | 237.5      | 0.0             | 0.625                      | 1.0   | 50.5              | -20.8             | -49.5 | 53.7         | 247.2        |              |
| 254.9      | 240.0      | 244.3      | 0.0             | 0.5                        | 1.0   | 46.1              | -13.3             | -49.4 | 51.1         | 254.9        |              |
| 262.6      | 247.5      | 251.2      | 0.0             | 0.375                      | 1.0   | 41.4              | -6.3              | -49.2 | 49.6         | 262.6        |              |
| 272.6      | 255.0      | 258.0      | 0.0             | 0.25                       | 1.0   | 36.8              | 2.2               | -48.5 | 48.6         | 272.6        |              |
| 281.4      | 262.5      | 264.8      | 0.0             | 0.125                      | 1.0   | 35.0              | 9.4               | -46.3 | 47.3         | 281.4        |              |
| 290.8      | 270.0      | 271.7      | 0.0             | 0.0                        | 1.0   | 32.5              | 16.9              | -44.6 | 47.7         | 290.8        |              |
| 299.2      | 277.5      | 278.8      | 0.125           | 0.0                        | 1.0   | 31.6              | 23.6              | -42.2 | 48.4         | 299.2        |              |
| 307.8      | 285.0      | 285.9      | 0.25            | 0.0                        | 1.0   | 31.0              | 30.5              | -39.3 | 49.8         | 307.8        |              |
| 317.5      | 292.5      | 293.0      | 0.375           | 0.0                        | 1.0   | 34.2              | 38.2              | -35.0 | 51.8         | 317.5        |              |
| 324.4      | 300.0      | 300.1      | 0.5             | 0.0                        | 1.0   | 37.2              | 43.1              | -30.8 | 53.0         | 324.4        |              |
| 330.6      | 307.5      | 307.2      | 0.625           | 0.0                        | 1.0   | 39.1              | 48.4              | -27.2 | 55.6         | 330.6        |              |
| 338.7      | 315.0      | 314.3      | 0.75            | 0.0                        | 1.0   | 41.8              | 55.1              | -21.4 | 59.1         | 338.7        |              |
| 343.9      | 322.5      | 321.4      | 0.875           | 0.0                        | 1.0   | 45.6              | 60.1              | -17.3 | 62.6         | 343.9        |              |
| 348.9      | 330.0      | 328.6      | 1.0             | 0.0                        | 1.0   | 48.1              | 65.4              | -12.7 | 66.6         | 348.9        |              |
| 350.7      | 337.5      | 335.7      | 1.0             | 0.0                        | 0.875 | 49.5              | 66.1              | -10.7 | 67.0         | 350.7        |              |
| 354.2      | 345.0      | 342.8      | 1.0             | 0.0                        | 0.75  | 49.3              | 64.5              | -6.5  | 64.8         | 354.2        |              |
| 361.9      | 352.5      | 349.9      | 1.0             | 0.0                        | 0.625 | 48.0              | 61.8              | 2.1   | 61.8         | 361.9        |              |
| 370.0      | 360.0      | 357.0      | 1.0             | 0.0                        | 0.5   | 47.8              | 58.9              | 10.4  | 59.9         | 370.0        |              |
| 378.9      | 367.5      | 364.1      | 1.0             | 0.0                        | 0.375 | 47.4              | 56.8              | 19.5  | 60.0         | 378.9        |              |
| 386.2      | 375.0      | 371.2      | 1.0             | 0.0                        | 0.25  | 47.5              | 55.9              | 27.5  | 62.3         | 386.2        |              |
| 391.3      | 382.5      | 378.3      | 1.0             | 0.0                        | 0.125 | 47.6              | 56.3              | 34.2  | 65.9         | 391.3        |              |
| 393.4      | 390.0      | 385.4      | 1.0             | 0.0                        | 0.0   | 47.5              | 57.2              | 37.8  | 68.6         | 393.4        |              |

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QF990-70

LAB\*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*nmw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

sortie: Laser printer output; separation cmy6\*, D65, page 9/33

graphique TUB-QF99; code de teinte:  $H^*_d = G50B_d$   
cercle chromatique 48 paliers; tableaux  $rgb-LabCh^*$

entrée :  $rgb/cmyk \rightarrow rgb_d$   
sortie : transférer à  $cmyk_d$

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS  
application pour la mesure des sorties sur imprimante laser, séparation cmy6 (CMYK)

TUB matériel: code=rha4ta

| Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyn6*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard $RYGCBM_c$ ; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ; |            |            |                  |                              |       |                   |                              |       |                   |                              |       | Six angles de teinte des couleurs périphériques $RYGCBM_d$ ; $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires $RYGCBM_e$ ; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$ |                   |              |              |              |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|------------------------------|-------|-------------------|------------------------------|-------|-------------------|------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|--------------|--------------|--|--|--|--|--|--|--|
| $h_{ab,d}$                                                                                                                                                                                                                                     | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{ddx361Mi}$ (x=LabCh) | $R_d$ | $rgb^*_{ds361Mi}$ | $LAB^*_{dsx361Mi}$ (x=LabCh) | $R_s$ | $rgb^*_{dd361Mi}$ | $LAB^*_{dex361Mi}$ (x=LabCh) | $R_e$ | $rgb^*_{dd361Mi}$                                                                                                                                                                                                                   | $LAB^*_{dd361Mi}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |  |  |  |  |  |  |  |
| 33                                                                                                                                                                                                                                             | 30         | 25         | 1.0              | 0.0                          | 0.0   | 47.5              | 57.2                         | 37.8  | 68.6              | 33                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.0               | 1.0          | 0.0          | 0.0          |  |  |  |  |  |  |  |
| 34                                                                                                                                                                                                                                             | 31         | 26         | 1.0              | 0.016                        | 0.0   | 48.1              | 56.9                         | 39.3  | 69.2              | 34                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.016             | 1.0          | 0.017        | 0.0          |  |  |  |  |  |  |  |
| 35                                                                                                                                                                                                                                             | 32         | 27         | 1.0              | 0.033                        | 0.0   | 48.7              | 56.6                         | 40.8  | 69.8              | 35                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.033             | 1.0          | 0.033        | 0.0          |  |  |  |  |  |  |  |
| 36                                                                                                                                                                                                                                             | 33         | 28         | 1.0              | 0.05                         | 0.0   | 49.3              | 56.3                         | 42.3  | 70.4              | 36                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.05              | 1.0          | 0.05         | 0.0          |  |  |  |  |  |  |  |
| 38                                                                                                                                                                                                                                             | 34         | 29         | 1.0              | 0.066                        | 0.0   | 49.9              | 55.9                         | 43.9  | 71.1              | 38                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.066             | 1.0          | 0.067        | 0.0          |  |  |  |  |  |  |  |
| 39                                                                                                                                                                                                                                             | 35         | 31         | 1.0              | 0.083                        | 0.0   | 50.5              | 55.5                         | 45.4  | 71.7              | 39                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.083             | 1.0          | 0.083        | 0.0          |  |  |  |  |  |  |  |
| 40                                                                                                                                                                                                                                             | 36         | 32         | 1.0              | 0.1                          | 0.0   | 51.0              | 55.0                         | 46.9  | 72.3              | 40                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.1               | 1.0          | 0.1          | 0.0          |  |  |  |  |  |  |  |
| 41                                                                                                                                                                                                                                             | 37         | 33         | 1.0              | 0.116                        | 0.0   | 51.6              | 54.5                         | 48.4  | 72.9              | 41                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.116             | 1.0          | 0.117        | 0.0          |  |  |  |  |  |  |  |
| 42                                                                                                                                                                                                                                             | 38         | 34         | 1.0              | 0.133                        | 0.0   | 52.3              | 53.4                         | 49.7  | 73.0              | 42                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.133             | 1.0          | 0.133        | 0.0          |  |  |  |  |  |  |  |
| 44                                                                                                                                                                                                                                             | 39         | 35         | 1.0              | 0.15                         | 0.0   | 53.2              | 51.8                         | 50.6  | 72.4              | 44                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.15              | 1.0          | 0.15         | 0.0          |  |  |  |  |  |  |  |
| 45                                                                                                                                                                                                                                             | 40         | 36         | 1.0              | 0.166                        | 0.0   | 54.0              | 50.2                         | 51.5  | 71.9              | 45                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.166             | 1.0          | 0.167        | 0.0          |  |  |  |  |  |  |  |
| 47                                                                                                                                                                                                                                             | 41         | 37         | 1.0              | 0.183                        | 0.0   | 54.9              | 48.5                         | 52.3  | 71.4              | 47                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.183             | 1.0          | 0.183        | 0.0          |  |  |  |  |  |  |  |
| 48                                                                                                                                                                                                                                             | 42         | 38         | 1.0              | 0.2                          | 0.0   | 55.7              | 46.8                         | 53.1  | 70.8              | 48                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.2               | 1.0          | 0.2          | 0.0          |  |  |  |  |  |  |  |
| 50                                                                                                                                                                                                                                             | 43         | 39         | 1.0              | 0.216                        | 0.0   | 56.6              | 45.2                         | 53.8  | 70.3              | 50                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.216             | 1.0          | 0.217        | 0.0          |  |  |  |  |  |  |  |
| 51                                                                                                                                                                                                                                             | 44         | 41         | 1.0              | 0.233                        | 0.0   | 57.4              | 43.5                         | 54.5  | 69.7              | 51                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.233             | 1.0          | 0.233        | 0.0          |  |  |  |  |  |  |  |
| 52                                                                                                                                                                                                                                             | 45         | 42         | 1.0              | 0.25                         | 0.0   | 58.2              | 41.8                         | 55.1  | 69.2              | 52                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.25              | 1.0          | 0.25         | 0.0          |  |  |  |  |  |  |  |
| 54                                                                                                                                                                                                                                             | 46         | 43         | 1.0              | 0.266                        | 0.0   | 59.1              | 40.2                         | 56.0  | 69.0              | 54                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.266             | 1.0          | 0.267        | 0.0          |  |  |  |  |  |  |  |
| 55                                                                                                                                                                                                                                             | 47         | 44         | 1.0              | 0.283                        | 0.0   | 59.9              | 38.6                         | 56.8  | 68.7              | 55                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.283             | 1.0          | 0.283        | 0.0          |  |  |  |  |  |  |  |
| 57                                                                                                                                                                                                                                             | 48         | 45         | 1.0              | 0.3                          | 0.0   | 60.8              | 37.1                         | 57.5  | 68.5              | 57                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.3               | 1.0          | 0.3          | 0.0          |  |  |  |  |  |  |  |
| 58                                                                                                                                                                                                                                             | 49         | 46         | 1.0              | 0.316                        | 0.0   | 61.6              | 35.5                         | 58.2  | 68.2              | 58                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.316             | 1.0          | 0.317        | 0.0          |  |  |  |  |  |  |  |
| 60                                                                                                                                                                                                                                             | 50         | 47         | 1.0              | 0.333                        | 0.0   | 62.5              | 33.9                         | 58.9  | 68.0              | 60                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.333             | 1.0          | 0.333        | 0.0          |  |  |  |  |  |  |  |
| 61                                                                                                                                                                                                                                             | 51         | 48         | 1.0              | 0.35                         | 0.0   | 63.3              | 32.2                         | 59.5  | 67.7              | 61                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.35              | 1.0          | 0.35         | 0.0          |  |  |  |  |  |  |  |
| 63                                                                                                                                                                                                                                             | 52         | 49         | 1.0              | 0.366                        | 0.0   | 64.2              | 30.6                         | 60.1  | 67.5              | 63                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.366             | 1.0          | 0.367        | 0.0          |  |  |  |  |  |  |  |
| 64                                                                                                                                                                                                                                             | 53         | 51         | 1.0              | 0.383                        | 0.0   | 65.0              | 29.1                         | 60.8  | 67.4              | 64                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.383             | 1.0          | 0.383        | 0.0          |  |  |  |  |  |  |  |
| 65                                                                                                                                                                                                                                             | 54         | 52         | 1.0              | 0.4                          | 0.0   | 65.8              | 27.8                         | 61.7  | 67.7              | 65                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.4               | 1.0          | 0.4          | 0.0          |  |  |  |  |  |  |  |
| 67                                                                                                                                                                                                                                             | 55         | 53         | 1.0              | 0.416                        | 0.0   | 66.6              | 26.4                         | 62.5  | 67.9              | 67                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.416             | 1.0          | 0.417        | 0.0          |  |  |  |  |  |  |  |
| 68                                                                                                                                                                                                                                             | 56         | 54         | 1.0              | 0.433                        | 0.0   | 67.3              | 25.0                         | 63.3  | 68.1              | 68                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.433             | 1.0          | 0.433        | 0.0          |  |  |  |  |  |  |  |
| 69                                                                                                                                                                                                                                             | 57         | 55         | 1.0              | 0.45                         | 0.0   | 68.1              | 23.6                         | 64.1  | 68.3              | 69                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.45              | 1.0          | 0.45         | 0.0          |  |  |  |  |  |  |  |
| 71                                                                                                                                                                                                                                             | 58         | 56         | 1.0              | 0.466                        | 0.0   | 68.9              | 22.1                         | 64.8  | 68.5              | 71                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.466             | 1.0          | 0.467        | 0.0          |  |  |  |  |  |  |  |
| 72                                                                                                                                                                                                                                             | 59         | 57         | 1.0              | 0.483                        | 0.0   | 69.7              | 20.7                         | 65.6  | 68.8              | 72                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.483             | 1.0          | 0.483        | 0.0          |  |  |  |  |  |  |  |
| 73                                                                                                                                                                                                                                             | 60         | 58         | 1.0              | 0.5                          | 0.0   | 70.5              | 19.2                         | 66.2  | 69.0              | 73                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.5               | 1.0          | 0.5          | 0.0          |  |  |  |  |  |  |  |
| 74                                                                                                                                                                                                                                             | 61         | 60         | 1.0              | 0.516                        | 0.0   | 71.0              | 18.2                         | 66.9  | 69.3              | 74                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.516             | 1.0          | 0.517        | 0.0          |  |  |  |  |  |  |  |
| 75                                                                                                                                                                                                                                             | 62         | 61         | 1.0              | 0.533                        | 0.0   | 71.6              | 17.2                         | 67.5  | 69.7              | 75                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.533             | 1.0          | 0.533        | 0.0          |  |  |  |  |  |  |  |
| 76                                                                                                                                                                                                                                             | 63         | 62         | 1.0              | 0.55                         | 0.0   | 72.2              | 16.2                         | 68.1  | 70.0              | 76                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.55              | 1.0          | 0.55         | 0.0          |  |  |  |  |  |  |  |
| 77                                                                                                                                                                                                                                             | 64         | 63         | 1.0              | 0.566                        | 0.0   | 72.8              | 15.1                         | 68.7  | 70.4              | 77                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.566             | 1.0          | 0.567        | 0.0          |  |  |  |  |  |  |  |
| 78                                                                                                                                                                                                                                             | 65         | 64         | 1.0              | 0.583                        | 0.0   | 73.4              | 14.1                         | 69.3  | 70.7              | 78                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.583             | 1.0          | 0.583        | 0.0          |  |  |  |  |  |  |  |
| 79                                                                                                                                                                                                                                             | 66         | 65         | 1.0              | 0.6                          | 0.0   | 74.0              | 13.0                         | 69.9  | 71.1              | 79                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.6               | 1.0          | 0.6          | 0.0          |  |  |  |  |  |  |  |
| 80                                                                                                                                                                                                                                             | 67         | 66         | 1.0              | 0.616                        | 0.0   | 74.6              | 12.0                         | 70.4  | 71.4              | 80                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.616             | 1.0          | 0.617        | 0.0          |  |  |  |  |  |  |  |
| 81                                                                                                                                                                                                                                             | 68         | 67         | 1.0              | 0.633                        | 0.0   | 75.4              | 10.6                         | 71.2  | 72.0              | 81                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.633             | 1.0          | 0.633        | 0.0          |  |  |  |  |  |  |  |
| 82                                                                                                                                                                                                                                             | 69         | 68         | 1.0              | 0.65                         | 0.0   | 76.5              | 8.9                          | 72.1  | 72.7              | 82                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.65              | 1.0          | 0.65         | 0.0          |  |  |  |  |  |  |  |
| 84                                                                                                                                                                                                                                             | 70         | 70         | 1.0              | 0.666                        | 0.0   | 77.5              | 7.2                          | 73.0  | 73.4              | 84                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.666             | 1.0          | 0.667        | 0.0          |  |  |  |  |  |  |  |
| 85                                                                                                                                                                                                                                             | 71         | 71         | 1.0              | 0.683                        | 0.0   | 78.6              | 5.4                          | 73.9  | 74.1              | 85                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.683             | 1.0          | 0.683        | 0.0          |  |  |  |  |  |  |  |
| 87                                                                                                                                                                                                                                             | 72         | 72         | 1.0              | 0.7                          | 0.0   | 79.7              | 3.6                          | 74.7  | 74.8              | 87                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.7               | 1.0          | 0.7          | 0.0          |  |  |  |  |  |  |  |
| 88                                                                                                                                                                                                                                             | 73         | 73         | 1.0              | 0.716                        | 0.0   | 80.8              | 1.7                          | 75.5  | 75.5              | 88                           | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.716             | 1.0          | 0.717        | 0.0          |  |  |  |  |  |  |  |
| -269                                                                                                                                                                                                                                           | 74         | 74         | 1.0              | 0.733                        | 0.0   | 81.8              | -0.1                         | 76.3  | 76.3              | -269                         | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.733             | 1.0          | 0.733        | 0.0          |  |  |  |  |  |  |  |
| -268                                                                                                                                                                                                                                           | 75         | 75         | 1.0              | 0.75                         | 0.0   | 82.9              | -2.0                         | 76.9  | 77.0              | -268                         | 1.0   | 0.0                                                                                                                                                                                                                                 | 0.75              | 1.0          | 0.75         | 0.0          |  |  |  |  |  |  |  |

3-003930-L0 QF990-70 LAB\*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*nmw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

graphique TUB-QF99; code de teinte:  $H^*_d=G50B_d$   
cercle chromatique 48 paliers; tableaux  $rgb-LabCh^*$

entrée :  $rgb/cmyk \rightarrow rgb_d$   
sortie : transférer à  $cmyk_d$

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



Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyk\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s: h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;$

Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

|              |          |                                                                                              |
|--------------|----------|----------------------------------------------------------------------------------------------|
| 3-0031130-L0 | QF990-70 | LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0 |
|--------------|----------|----------------------------------------------------------------------------------------------|

sortie: Laser printer output; separation cmyn6\*, D65, page 12/38

graphique TUB-QF99; code de teinte:  $H^*_d=G50B_d$   
cercle chromatique 48 paliers; tableaux *rgb-LabCh\**

entrée :  $rgb/cmyk \rightarrow rgb_d$   
 sortie : transférer à  $cmyk_d$











http://130.149.60.45/~farbmetrik/QF99/QF99L0NA.TXT /.PS; sortie de transfert  
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 18/33

| nj     | HfC*Fd        | rgb_Fd | ic_Fd | hs_Fd | rgb_Fd | LabCh*Fd | LabCh*Fd | rgb_Fd | DF*Fd | hs_Md | rgb_Md | LabCh*Md | LabCh*Md |
|--------|---------------|--------|-------|-------|--------|----------|----------|--------|-------|-------|--------|----------|----------|
| 0/648  | R00Y_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 390      | 47.5     | 57.2   | 37.8  | 68.6  | 33.4   | 0.0      | 389      |
| 1/657  | R13Y_100_100a | 1.0    | 0.125 | 1.0   | 1.0    | 370      | 51.6     | 54.5   | 48.4  | 72.9  | 41.6   | 0.0      | 389      |
| 2/666  | R25Y_100_100a | 1.0    | 0.25  | 1.0   | 1.0    | 350      | 54.5     | 57.2   | 51.6  | 75.8  | 44.5   | 0.0      | 389      |
| 3/675  | R38Y_100_100a | 1.0    | 0.375 | 1.0   | 1.0    | 330      | 57.2     | 54.5   | 54.5  | 78.7  | 47.5   | 0.0      | 389      |
| 4/684  | R50Y_100_100a | 1.0    | 0.5   | 1.0   | 1.0    | 310      | 60.1     | 57.2   | 57.2  | 81.6  | 50.4   | 0.0      | 389      |
| 5/693  | R63Y_100_100a | 1.0    | 0.625 | 1.0   | 1.0    | 290      | 62.9     | 54.5   | 54.5  | 84.5  | 53.3   | 0.0      | 389      |
| 6/702  | R75Y_100_100a | 1.0    | 0.75  | 1.0   | 1.0    | 270      | 65.8     | 51.6   | 51.6  | 87.4  | 56.2   | 0.0      | 389      |
| 7/711  | R88Y_100_100a | 1.0    | 0.875 | 1.0   | 1.0    | 250      | 68.6     | 47.5   | 47.5  | 90.3  | 59.1   | 0.0      | 389      |
| 8/720  | Y00C_100_100a | 1.0    | 1.0   | 1.0   | 0.5    | 90       | 91.5     | 15.8   | 84.6  | 86.1  | 100.5  | 0.0      | 89       |
| 9/639  | Y13C_100_100a | 0.875  | 1.0   | 1.0   | 0.5    | 104      | 92.7     | 18.0   | 86.1  | 89.0  | 101.4  | 0.0      | 90       |
| 10/558 | Y25C_100_100a | 0.75   | 1.0   | 1.0   | 0.5    | 117      | 94.0     | 20.9   | 88.5  | 91.4  | 103.6  | 0.0      | 91       |
| 11/477 | Y38C_100_100a | 0.625  | 1.0   | 1.0   | 0.5    | 130      | 95.3     | 23.8   | 91.4  | 94.0  | 106.2  | 0.0      | 92       |
| 12/396 | Y50C_100_100a | 0.5    | 1.0   | 1.0   | 0.5    | 143      | 96.6     | 27.7   | 94.0  | 96.6  | 108.8  | 0.0      | 93       |
| 13/315 | Y63C_100_100a | 0.375  | 1.0   | 1.0   | 0.5    | 156      | 97.9     | 31.6   | 96.6  | 99.3  | 111.5  | 0.0      | 94       |
| 14/234 | Y75C_100_100a | 0.25   | 1.0   | 1.0   | 0.5    | 169      | 99.2     | 35.5   | 99.3  | 101.9 | 114.2  | 0.0      | 95       |
| 15/153 | Y88C_100_100a | 0.125  | 1.0   | 1.0   | 0.5    | 182      | 100.5    | 39.4   | 101.9 | 104.4 | 116.9  | 0.0      | 96       |
| 16/72  | G00C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 150      | 54.3     | 67.6   | 30.8  | 74.3  | 155.5  | 0.0      | 149      |
| 17/73  | G13C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 137      | 57.2     | 65.8   | 33.4  | 77.2  | 158.4  | 0.0      | 150      |
| 18/74  | G25C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 124      | 60.1     | 62.9   | 36.3  | 80.1  | 161.3  | 0.0      | 151      |
| 19/75  | G38C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 111      | 62.9     | 65.8   | 39.4  | 82.8  | 164.2  | 0.0      | 152      |
| 20/76  | G50C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 98       | 65.8     | 68.6   | 41.6  | 85.7  | 167.1  | 0.0      | 153      |
| 21/77  | G63C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 85       | 68.6     | 71.1   | 44.5  | 88.6  | 170.0  | 0.0      | 154      |
| 22/78  | G75C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 72       | 71.1     | 75.8   | 47.5  | 91.4  | 172.9  | 0.0      | 155      |
| 23/79  | G88C_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 60       | 74.0     | 78.7   | 50.4  | 94.3  | 175.8  | 0.0      | 156      |
| 24/80  | C00B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 217      | 53.1     | 30.0   | 43.1  | 52.5  | 235.1  | 0.0      | 210      |
| 25/71  | C13B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 204      | 56.2     | 33.9   | 46.0  | 55.4  | 248.0  | 0.0      | 211      |
| 26/62  | C25B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 191      | 59.1     | 37.8   | 48.9  | 58.3  | 260.9  | 0.0      | 212      |
| 27/53  | C38B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 178      | 62.0     | 41.6   | 51.6  | 60.6  | 273.8  | 0.0      | 213      |
| 28/44  | C50B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 165      | 64.9     | 45.5   | 54.5  | 62.9  | 286.7  | 0.0      | 214      |
| 29/35  | C63B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 152      | 67.8     | 49.4   | 57.2  | 65.8  | 299.6  | 0.0      | 215      |
| 30/26  | C75B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 139      | 70.7     | 53.3   | 60.1  | 68.6  | 312.5  | 0.0      | 216      |
| 31/17  | C88B_100_100a | 0.0    | 1.0   | 1.0   | 0.5    | 126      | 73.7     | 57.2   | 62.9  | 71.1  | 325.4  | 0.0      | 217      |
| 32/8   | B00M_100_100a | 0.0    | 1.0   | 1.0   | 1.0    | 270      | 32.5     | 16.9   | 44.6  | 47.7  | 290.8  | 0.0      | 270      |
| 33/89  | B13M_100_100a | 0.125  | 1.0   | 1.0   | 1.0    | 257      | 35.4     | 19.8   | 47.7  | 50.4  | 303.7  | 0.0      | 271      |
| 34/170 | B25M_100_100a | 0.25   | 1.0   | 1.0   | 1.0    | 244      | 38.3     | 23.8   | 50.4  | 53.3  | 316.6  | 0.0      | 272      |
| 35/251 | B38M_100_100a | 0.375  | 1.0   | 1.0   | 1.0    | 231      | 41.2     | 27.7   | 53.3  | 56.2  | 329.5  | 0.0      | 273      |
| 36/332 | B50M_100_100a | 0.5    | 1.0   | 1.0   | 1.0    | 218      | 44.1     | 31.6   | 56.2  | 59.1  | 342.4  | 0.0      | 274      |
| 37/413 | B63M_100_100a | 0.625  | 1.0   | 1.0   | 1.0    | 205      | 47.0     | 35.5   | 59.1  | 62.0  | 355.3  | 0.0      | 275      |
| 38/494 | B75M_100_100a | 0.75   | 1.0   | 1.0   | 1.0    | 192      | 49.9     | 39.4   | 62.0  | 64.9  | 368.2  | 0.0      | 276      |
| 39/575 | B88M_100_100a | 0.875  | 1.0   | 1.0   | 1.0    | 179      | 52.8     | 43.1   | 64.9  | 67.8  | 381.1  | 0.0      | 277      |
| 40/656 | M00R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 330      | 48.1     | 65.4   | 12.7  | 66.6  | 348.9  | 0.0      | 330      |
| 41/655 | M13R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 317      | 51.0     | 68.6   | 15.8  | 69.5  | 361.8  | 0.0      | 331      |
| 42/654 | M25R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 304      | 54.0     | 71.1   | 18.0  | 72.6  | 374.7  | 0.0      | 332      |
| 43/653 | M38R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 291      | 57.0     | 74.0   | 21.0  | 75.5  | 387.6  | 0.0      | 333      |
| 44/652 | M50R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 278      | 60.0     | 77.0   | 24.0  | 78.4  | 400.5  | 0.0      | 334      |
| 45/651 | M63R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 265      | 62.9     | 80.1   | 27.0  | 81.3  | 413.4  | 0.0      | 335      |
| 46/650 | M75R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 252      | 65.8     | 83.0   | 30.0  | 84.2  | 426.3  | 0.0      | 336      |
| 47/649 | M88R_100_100a | 1.0    | 0.0   | 1.0   | 0.5    | 239      | 68.6     | 86.0   | 33.0  | 87.1  | 439.2  | 0.0      | 337      |
| 48/648 | R00Y_100_100a | 1.0    | 0.0   | 1.0   | 1.0    | 390      | 47.5     | 57.2   | 37.8  | 68.6  | 33.4   | 0.0      | 389      |
| 49/0   | NW_000a       | 0.125  | 0.0   | 0.0   | 0.0    | 360      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 360      |
| 50/91  | NW_013a       | 0.25   | 0.0   | 0.0   | 0.0    | 347      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 347      |
| 51/182 | NW_025a       | 0.375  | 0.0   | 0.0   | 0.0    | 334      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 334      |
| 52/273 | NW_038a       | 0.5    | 0.0   | 0.0   | 0.0    | 321      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 321      |
| 53/364 | NW_050a       | 0.625  | 0.0   | 0.0   | 0.0    | 308      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 308      |
| 54/455 | NW_063a       | 0.75   | 0.0   | 0.0   | 0.0    | 295      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 295      |
| 55/546 | NW_075a       | 0.875  | 0.0   | 0.0   | 0.0    | 282      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 282      |
| 56/637 | NW_088a       | 1.0    | 0.0   | 0.0   | 0.0    | 269      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 269      |
| 57/728 | NW_100a       | 1.0    | 0.0   | 0.0   | 0.0    | 256      | 0.0      | 0.0    | 0.0   | 0.0   | 0.0    | 0.0      | 256      |

delta E\* = 2.9

graphique TUB-QF99; code de teinte: H\*d=G50Bd  
couleurs et différences, ΔE\*

entrée : rgb/cmyk -> rgba  
sortie : transférer à cmykd



voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 20/33  
http://130.149.60.45/~farbmeterik/QF99/QF99L0NA.TXT /PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>d</sub><sup>\*</sup>=G50B<sub>d</sub>

entrée : rgb/cmyk -> rgb

[illegible]



voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 22/33  
http://130.149.60.45/~farbmeterik/QF99/QF99L0NA.TXT /PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>a</sub>\*=G50B<sub>d</sub>

entrée : *rgb/cmyk* –> *rgb*  
sortie : transférer à *cmyk*

[illegible]

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 23/33  
http://130.149.60.45/~farbmeterik/QF99/QF99L0NA.TXT / PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>d</sub>\*=G50B<sub>d</sub>

entrée : `rgb/cmyk` -> `rgb`

[illegible]

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 24/33  
http://130.149.60.45/~farbmetrik/QF99/QF99L0NA.TXT /PS; sortie de transfert

graphique TUB-QF99; code de teinte: H\*d=G50Bd

entrée : *rgb/cmyk* -> *rgb*<sub>d</sub>  
sortie : transférer à *cmyk*<sub>d</sub>

[illegible]



voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

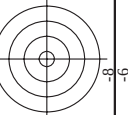
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 26/33  
http://130.149.60.45/~farbmetrik/QF99/QF99L0NA.TXT /PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>a</sub>\*=G50B<sub>d</sub>

entrée : *rgb/cmyk* -> *rgb*<sub>d</sub>  
sortie : transférer à *cmyk*<sub>d</sub>

| $n$ | HIC*          | $rgb_{\text{red}}$ | $lcr_{\text{red}}$ | $hsa_{\text{red}}$ | $rgb^*_{\text{red}}$ | $LabCH^*_{\text{red}}$ | $LabCH^*_{\text{red}}$ | $rgb^*_{\text{red}}$ | $DE^*_{\text{red}}$ | $hsa_{\text{red}}$ | $rgb^*_{\text{red}}$ | $LabCH^*_{\text{red}}$ |
|-----|---------------|--------------------|--------------------|--------------------|----------------------|------------------------|------------------------|----------------------|---------------------|--------------------|----------------------|------------------------|
| 486 | R00Y_075_075d | 0.75               | 0.0                | 0.0                | 0.75                 | 0.0                    | 0.0                    | 0.0                  | 39.7                | 47.0               | 29.4                 | 55.5                   |
| 487 | R35Y_075_075d | 0.75               | 0.0                | 0.112              | 41.6                 | 42.9                   | 28.6                   | 30.3                 | 0.75                | 0.0                | 0.125                | 39.0                   |
| 488 | R18Y_075_075d | 0.75               | 0.0                | 0.237              | 43.5                 | 44.2                   | 24.3                   | 48.9                 | 30.3                | 0.75               | 0.0                  | 0.125                  |
| 489 | R00Y_075_075d | 0.75               | 0.0                | 0.375              | 41.8                 | 44.2                   | 17.4                   | 45.8                 | 22.3                | 0.75               | 0.0                  | 0.25                   |
| 490 | R65Y_075_075d | 0.75               | 0.0                | 0.375              | 41.8                 | 44.2                   | 7.8                    | 44.9                 | 10.0                | 0.75               | 0.0                  | 0.375                  |
| 491 | B57Y_075_075d | 0.75               | 0.0                | 0.375              | 43.9                 | 47.4                   | -1.3                   | 47.4                 | 358.3               | 0.75               | 0.0                  | 0.5                    |
| 492 | B50Y_075_075d | 0.75               | 0.0                | 0.625              | 42.0                 | 49.4                   | -7.4                   | 49.9                 | 351.4               | 0.75               | 0.0                  | 0.625                  |
| 493 | B38Y_087_087d | 0.75               | 0.0                | 0.375              | 42.1                 | 49.0                   | -52.3                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 494 | B38Y_087_087d | 0.75               | 0.0                | 0.785              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 495 | B38Y_087_087d | 0.75               | 0.0                | 0.785              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 496 | R15Y_075_075d | 0.75               | 0.0                | 0.112              | 41.6                 | 42.9                   | 28.6                   | 30.3                 | 0.75                | 0.0                | 0.125                | 39.0                   |
| 497 | R35Y_075_075d | 0.75               | 0.0                | 0.237              | 43.5                 | 44.2                   | 17.4                   | 45.8                 | 22.3                | 0.75               | 0.0                  | 0.125                  |
| 498 | R18Y_075_075d | 0.75               | 0.0                | 0.375              | 41.8                 | 44.2                   | 7.8                    | 44.9                 | 10.0                | 0.75               | 0.0                  | 0.375                  |
| 499 | R00Y_075_075d | 0.75               | 0.0                | 0.375              | 43.9                 | 47.4                   | -1.3                   | 47.4                 | 358.3               | 0.75               | 0.0                  | 0.5                    |
| 500 | B57Y_075_075d | 0.75               | 0.0                | 0.375              | 42.0                 | 49.4                   | -7.4                   | 49.9                 | 351.4               | 0.75               | 0.0                  | 0.625                  |
| 501 | B50Y_075_075d | 0.75               | 0.0                | 0.625              | 42.1                 | 49.0                   | -52.3                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 502 | B38Y_087_087d | 0.75               | 0.0                | 0.375              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 503 | B38Y_087_087d | 0.75               | 0.0                | 0.785              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 504 | R15Y_075_075d | 0.75               | 0.0                | 0.112              | 41.6                 | 42.9                   | 28.6                   | 30.3                 | 0.75                | 0.0                | 0.125                | 39.0                   |
| 505 | R35Y_075_075d | 0.75               | 0.0                | 0.237              | 43.5                 | 44.2                   | 17.4                   | 45.8                 | 22.3                | 0.75               | 0.0                  | 0.125                  |
| 506 | R18Y_075_075d | 0.75               | 0.0                | 0.375              | 41.8                 | 44.2                   | 7.8                    | 44.9                 | 10.0                | 0.75               | 0.0                  | 0.375                  |
| 507 | R00Y_075_075d | 0.75               | 0.0                | 0.375              | 43.9                 | 47.4                   | -1.3                   | 47.4                 | 358.3               | 0.75               | 0.0                  | 0.5                    |
| 508 | B57Y_075_075d | 0.75               | 0.0                | 0.375              | 42.0                 | 49.4                   | -7.4                   | 49.9                 | 351.4               | 0.75               | 0.0                  | 0.625                  |
| 509 | B50Y_075_075d | 0.75               | 0.0                | 0.625              | 42.1                 | 49.0                   | -52.3                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 510 | B38Y_087_087d | 0.75               | 0.0                | 0.375              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 511 | B38Y_087_087d | 0.75               | 0.0                | 0.785              | 42.1                 | 49.0                   | -15.4                  | 54.5                 | 343.5               | 0.75               | 0.0                  | 0.785                  |
| 512 | R15Y_075_075d | 0.75               | 0.0                | 0.112              | 41.6                 | 42.9                   | 28.6                   | 30.3                 | 0.75                | 0.0                | 0.125                | 39.0                   |
| 513 | R35Y_075_075d | 0.75               | 0.0                | 0.237              | 43.5                 | 44.2                   | 17.4                   | 45.8                 | 22.3                | 0.75               | 0.0                  | 0.125                  |
| 514 | R18Y_075_075d | 0.75               | 0.0                | 0.375              | 41.8                 | 44.2                   | 7.8                    | 44.9                 | 10.0                | 0.75               | 0.0                  | 0.375                  |
| 515 | R00Y_075_075d | 0.75               | 0.0                | 0.375              | 43.9                 | 47.4                   | -1.3                   | 47.4                 | 358.3               | 0.75               | 0.0                  | 0.5                    |
| 516 | B57Y_075_075d | 0.75               | 0.0                | 0.375              | 42.                  |                        |                        |                      |                     |                    |                      |                        |





voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

graphique TUB-QF99; code de teinte: H<sup>\*</sup><sub>d</sub>=G50Ba

| <i>n</i> | HIC* <i>F</i> <sub>id</sub> | <i>rgb_F</i> <sub>id</sub> | <i>lcr_F</i> <sub>id</sub> | <i>h<sub>0</sub>_F</i> <sub>id</sub> | <i>rgb_F</i> <sub>id</sub> | <i>LabCh</i> * <i>F</i> <sub>id</sub> | <i>LabCh</i> * <i>F</i> <sub>id</sub> | <i>rgb_F</i> <sub>id</sub> | <i>DE</i> * <i>F</i> <sub>id</sub> | <i>h<sub>0</sub>Δ</i> <sub>id</sub> | <i>rgb_Δ</i> <sub>id</sub> | <i>LabCh</i> * <i>Δ</i> <sub>id</sub> |      |      |      |       |
|----------|-----------------------------|----------------------------|----------------------------|--------------------------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|------------------------------------|-------------------------------------|----------------------------|---------------------------------------|------|------|------|-------|
| 648      | R00Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 390                        | 68.6                                  | 33.4                                  | 1.0                        | 0.0                                | 0.0                                 | 0.0                        | 47.5                                  | 57.2 | 37.8 | 68.6 | 33.4  |
| 649      | R38Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 383                        | 66.1                                  | 31.4                                  | 1.0                        | 0.0                                | 0.125                               | 0.0                        | 47.5                                  | 57.2 | 34.2 | 65.9 | 31.4  |
| 650      | R26Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 376                        | 62.8                                  | 26.9                                  | 1.0                        | 0.0                                | 0.235                               | 0.0                        | 47.5                                  | 55.9 | 27.5 | 62.3 | 26.9  |
| 651      | R13Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 368                        | 60.2                                  | 19.4                                  | 1.0                        | 0.0                                | 0.375                               | 0.0                        | 47.5                                  | 56.8 | 19.4 | 56.8 | 20.0  |
| 652      | R68Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 360                        | 59.9                                  | 10.0                                  | 1.0                        | 0.0                                | 0.5                                 | 0.0                        | 47.8                                  | 58.9 | 10.4 | 59.9 | 10.4  |
| 653      | B68R_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 352                        | 62.0                                  | 1.5                                   | 1.0                        | 0.0                                | 0.0                                 | 0.0                        | 48.0                                  | 61.8 | 21.1 | 61.8 | 1.9   |
| 654      | B61R_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 344                        | 61.7                                  | 65.1                                  | 353.7                      | 1.0                                | 0.0                                 | 0.0                        | 49.3                                  | 64.5 | 35.4 | 64.8 | 35.4  |
| 655      | B55R_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 337                        | 67.0                                  | 350.6                                 | 66.1                       | 1.0                                | 0.0                                 | 0.0                        | 49.5                                  | 66.1 | 35.0 | 67.0 | 350.6 |
| 656      | B50R_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 330                        | 66.6                                  | 348.9                                 | 65.4                       | 1.0                                | 0.0                                 | 0.0                        | 48.1                                  | 65.4 | 34.8 | 66.1 | 348.9 |
| 657      | R11Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 330                        | 72.9                                  | 41.6                                  | 54.5                       | 1.0                                | 0.125                               | 0.0                        | 51.9                                  | 54.3 | 42.1 | 73.2 | 42.1  |
| 658      | R00Y_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 330                        | 60.0                                  | 33.4                                  | 60.0                       | 1.0                                | 0.125                               | 0.0                        | 51.9                                  | 54.3 | 42.1 | 60.0 | 33.4  |
| 659      | R36Y_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 392                        | 59.0                                  | 33.1                                  | 57.3                       | 1.0                                | 0.125                               | 0.0                        | 51.1                                  | 57.3 | 36.2 | 59.0 | 33.1  |
| 660      | R23Y_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 374                        | 49.0                                  | 23.1                                  | 52.2                       | 1.0                                | 0.125                               | 0.0                        | 50.9                                  | 52.2 | 14.4 | 49.0 | 23.1  |
| 661      | R08Y_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 365                        | 53.5                                  | 50.5                                  | 53.5                       | 1.0                                | 0.125                               | 0.0                        | 51.5                                  | 53.5 | 16.5 | 53.5 | 50.5  |
| 662      | B70R_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 355                        | 53.3                                  | 4.3                                   | 53.5                       | 1.0                                | 0.125                               | 0.0                        | 51.1                                  | 53.5 | 4.4  | 53.5 | 4.3   |
| 663      | B63R_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 346                        | 56.2                                  | 35.2                                  | 56.2                       | 1.0                                | 0.125                               | 0.0                        | 51.5                                  | 56.2 | 35.2 | 56.2 | 35.2  |
| 664      | B56R_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 338                        | 57.8                                  | 39.1                                  | 58.5                       | 1.0                                | 0.125                               | 0.0                        | 52.1                                  | 58.5 | 39.1 | 58.5 | 39.1  |
| 665      | B50R_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 330                        | 57.2                                  | 39.1                                  | 58.5                       | 1.0                                | 0.125                               | 0.0                        | 51.6                                  | 58.5 | 39.1 | 58.5 | 39.1  |
| 666      | R23Y_100_100d               | 1.0                        | 0.0                        | 0.5                                  | 44                         | 43.5                                  | 54.4                                  | 63.7                       | 1.0                                | 0.25                                | 0.0                        | 58.2                                  | 41.8 | 52.8 | 41.8 | 52.8  |
| 667      | R13Y_100_087d               | 1.0                        | 0.0                        | 0.5                                  | 38                         | 46.8                                  | 43.4                                  | 63.8                       | 1.0                                | 0.25                                | 0.0                        | 57.8                                  | 42.8 | 53.7 | 68.7 | 51.4  |
| 668      | R00Y_100_075d               | 1.0                        | 0.0                        | 0.5                                  | 390                        | 42.9                                  | 33.4                                  | 42.9                       | 1.0                                | 0.25                                | 0.0                        | 58.2                                  | 41.8 | 52.8 | 41.8 | 52.8  |
| 669      | R35Y_100_075d               | 1.0                        | 0.0                        | 0.5                                  | 381                        | 51.4                                  | 33.4                                  | 51.4                       | 1.0                                | 0.25                                | 0.0                        | 58.2                                  | 41.8 | 52.8 | 41.8 | 52.8  |
| 670      | R18Y_100_075d               | 1.0                        | 0.0                        | 0.5                                  | 371                        | 44.9                                  | 22.3                                  | 44.9                       | 1.0                                | 0.25                                | 0.0                        | 56.8                                  | 45.9 | 33.2 | 56.7 | 35.9  |
| 671      | R00Y_100_075d               | 1.0                        | 0.0                        | 0.5                                  | 360                        | 44.8                                  | 10.0                                  | 44.8                       | 1.0                                | 0.25                                | 0.0                        | 56.8                                  | 45.9 | 33.2 | 56.7 | 35.9  |
| 672      | B65R_100_075d               | 1.0                        | 0.0                        | 0                                    |                            |                                       |                                       |                            |                                    |                                     |                            |                                       |      |      |      |       |



informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

graphique TUB-QF99; code de teinte: H<sub>d</sub>\*=G50B<sub>d</sub>

entrée : *rgb/cmyk* → *rgb*<sub>d</sub>  
 sortie : transférer à *cmyk*<sub>d</sub>

| n | HIC*Fd | rgb_Fd | Irc_Fd | h3c_Fd | rgb*Fd | LabCh*Fd | DE*Fd | h3c*Fd | rgb*Md | LabCh*Md | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  | 0.0 |  |
|---|--------|--------|--------|--------|--------|----------|-------|--------|--------|----------|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|
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TUB matériel: code=rha4ta  
 uration cmyn6 (CMYK)

http://130.149.60.45/~farbmatrik/QF99/QF99LONA.TXT /PS; sortie de transfert  
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S) page 32/33

[illegible][illegible]graphique TUB-QF99; code de teinte: H<sub>d</sub>\*=G50B<sub>d</sub>

graphique TUB-QF99; co-

| CO | gr |
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informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT /PS TUB matériel: code=rha4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyn6 (CMYK)

| n    | HIC*Fd        | rgb_Fd      | ic*_Fd      | hs*_Fd      | rgb*_Fd     | LabCh*_Fd | hs*_Fd  | rgb*_Fd     | LabCh*_Fd | DE*Fd | hsM_d | rgb*_Md | LabCh*_Md |
|------|---------------|-------------|-------------|-------------|-------------|-----------|---------|-------------|-----------|-------|-------|---------|-----------|
| 1053 | NW_086q       | 0.866 0.866 | 0.866 0.866 | 0.866 0.866 | 0.866 0.866 | 90.6 0.0  | 0.0 0.0 | 0.866 0.866 | 90.6 0.0  | 0.1   | 266.5 | 1.0 1.0 | 95.8 0.0  |
| 1054 | NW_093d       | 0.933 0.933 | 0.933 0.933 | 0.933 0.933 | 0.933 0.933 | 94.4 0.0  | 0.0 0.0 | 0.933 0.933 | 94.4 0.0  | 0.2   | 278.1 | 1.0 1.0 | 95.8 0.0  |
| 1055 | NW_100d       | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 95.8 0.0  | 0.0 0.0 | 1.0 1.0     | 95.8 0.0  | 0.0   | 152.8 | 1.0 1.0 | 95.8 0.0  |
| 1056 | NW_000q       | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 18.1 0.0  | 0.0 0.0 | 0.0 0.0     | 18.1 0.0  | 0.2   | 83.2  | 1.0 1.0 | 95.8 0.0  |
| 1057 | NW_006q       | 0.066 0.066 | 0.066 0.066 | 0.066 0.066 | 0.066 0.066 | 21.5 0.1  | 0.0 0.0 | 0.066 0.066 | 21.5 0.1  | 0.1   | 48.9  | 1.0 1.0 | 95.8 0.0  |
| 1058 | NW_013d       | 0.133 0.133 | 0.133 0.133 | 0.133 0.133 | 0.133 0.133 | 28.9 0.0  | 0.0 0.0 | 0.133 0.133 | 28.9 0.0  | 0.7   | 268.2 | 1.0 1.0 | 95.8 0.0  |
| 1059 | NW_020q       | 0.2 0.2     | 0.2 0.2     | 0.2 0.2     | 0.2 0.2     | 37.3 0.0  | 0.0 0.0 | 0.2 0.2     | 37.3 0.0  | 1.1   | 267.2 | 1.0 1.0 | 95.8 0.0  |
| 1060 | NW_026q       | 0.266 0.266 | 0.266 0.266 | 0.266 0.266 | 0.266 0.266 | 44.2 0.0  | 0.0 0.0 | 0.266 0.266 | 44.2 0.0  | 1.1   | 269.1 | 1.0 1.0 | 95.8 0.0  |
| 1061 | NW_033d       | 0.333 0.333 | 0.333 0.333 | 0.333 0.333 | 0.333 0.333 | 49.9 0.0  | 0.0 0.0 | 0.333 0.333 | 49.9 0.0  | 0.8   | 274.5 | 1.0 1.0 | 95.8 0.0  |
| 1062 | NW_040q       | 0.4 0.4     | 0.4 0.4     | 0.4 0.4     | 0.4 0.4     | 53.8 0.0  | 0.0 0.0 | 0.4 0.4     | 53.8 0.0  | 0.9   | 273.2 | 1.0 1.0 | 95.8 0.0  |
| 1063 | NW_046q       | 0.466 0.466 | 0.466 0.466 | 0.466 0.466 | 0.466 0.466 | 59.7 0.0  | 0.0 0.0 | 0.466 0.466 | 59.7 0.0  | 1.1   | 268.9 | 1.0 1.0 | 95.8 0.0  |
| 1064 | NW_053d       | 0.533 0.533 | 0.533 0.533 | 0.533 0.533 | 0.533 0.533 | 65.4 0.0  | 0.0 0.0 | 0.533 0.533 | 65.4 0.0  | 0.9   | 273.1 | 1.0 1.0 | 95.8 0.0  |
| 1065 | NW_060q       | 0.6 0.6     | 0.6 0.6     | 0.6 0.6     | 0.6 0.6     | 70.2 0.0  | 0.0 0.0 | 0.6 0.6     | 70.2 0.0  | 0.8   | 268.8 | 1.0 1.0 | 95.8 0.0  |
| 1066 | NW_066q       | 0.666 0.666 | 0.666 0.666 | 0.666 0.666 | 0.666 0.666 | 75.5 0.0  | 0.0 0.0 | 0.666 0.666 | 75.5 0.0  | 0.7   | 271.9 | 1.0 1.0 | 95.8 0.0  |
| 1067 | NW_073d       | 0.734 0.734 | 0.734 0.734 | 0.734 0.734 | 0.734 0.734 | 80.8 0.0  | 0.0 0.0 | 0.734 0.734 | 80.8 0.0  | 0.4   | 265.0 | 1.0 1.0 | 95.8 0.0  |
| 1068 | NW_080q       | 0.8 0.8     | 0.8 0.8     | 0.8 0.8     | 0.8 0.8     | 85.3 0.0  | 0.0 0.0 | 0.8 0.8     | 85.3 0.0  | 0.3   | 279.5 | 1.0 1.0 | 95.8 0.0  |
| 1069 | NW_086q       | 0.866 0.866 | 0.866 0.866 | 0.866 0.866 | 0.866 0.866 | 90.2 0.0  | 0.0 0.0 | 0.866 0.866 | 90.2 0.0  | 0.2   | 289.2 | 1.0 1.0 | 95.8 0.0  |
| 1070 | NW_093d       | 0.933 0.933 | 0.933 0.933 | 0.933 0.933 | 0.933 0.933 | 94.2 0.0  | 0.0 0.0 | 0.933 0.933 | 94.2 0.0  | 0.2   | 289.2 | 1.0 1.0 | 95.8 0.0  |
| 1071 | NW_100d       | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 95.8 0.0  | 0.0 0.0 | 1.0 1.0     | 95.8 0.0  | 0.0   | 152.8 | 1.0 1.0 | 95.8 0.0  |
| 1072 | NW_000q       | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 19.2 0.1  | 0.0 0.0 | 0.0 0.0     | 19.2 0.1  | 0.2   | 81.1  | 1.0 1.0 | 95.8 0.0  |
| 1073 | ROY_100_100d  | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 95.8 0.0  | 0.0 0.0 | 1.0 1.0     | 95.8 0.0  | 0.2   | 284.6 | 1.0 1.0 | 95.8 0.0  |
| 1074 | G50B_100_100d | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 47.0 56.3 | 33.4    | 0.0 0.0     | 47.0 56.3 | 40.2  | 35.5  | 1.0 0.0 | 95.8 0.0  |
| 1075 | Y06C_100_100d | 0.0 1.0     | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 54.9 30.5 | 235.1   | 0.0 1.0     | 54.9 30.5 | 51.8  | 234.0 | 1.0 0.0 | 53.1      |
| 1076 | B06C_100_100d | 1.0 0.0     | 0.0 1.0     | 0.0 1.0     | 0.0 1.0     | 31.5 15.8 | 86.1    | 1.0 0.0     | 31.5 15.8 | 87.6  | 100.5 | 1.0 1.0 | 32.5      |
| 1077 | B00R_100_100d | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 0.0 0.0     | 21.5 16.9 | 47.7    | 0.0 0.0     | 21.5 16.9 | 44.1  | 295.7 | 1.0 0.0 | 16.9      |
| 1078 | B50R_100_100d | 0.0 1.0     | 1.0 1.0     | 1.0 1.0     | 1.0 1.0     | 54.3 30.8 | 74.3    | 0.0 1.0     | 54.3 30.8 | 76.7  | 148.1 | 1.0 0.0 | 54.3      |
| 1079 | B50R_100_100d | 1.0 0.0     | 0.0 1.0     | 0.0 1.0     | 0.0 1.0     | 66.3 12.7 | 66.6    | 1.0 0.0     | 66.3 12.7 | 67.7  | 330   | 1.0 0.0 | 66.6      |

delta E\* = 3.0

voir fichiers similaires: <http://130.149.60.45/~farbmetrik/QF99/QF99.HTM>  
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

entrée : rgb/cmyk -> rgba  
sortie : transférer à cmykd

graphique TUB-QF99; code de teinte: H\*d=G50Bd  
couleurs et différences,  $\Delta E^*$

voir fichiers similaires: <http://130.149.60.45/~farbmetrik/QF99/QF99.HTM>  
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 234/360 = 0.65$

Données de couleurs périphériques (d)

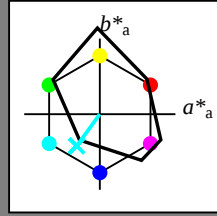
ou élémentaires (e):

$HIC^*$

code de teinte pour les couleurs de cette page:

$H^*_ = G50B_-$

triangle de luminosité  $T^*$



**FRS06a; données CIELAB (a) adaptées**

| nom                | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------------|---------|--------------|--------------|
| R <sub>-,Ma</sub>  | 32.5              | 62.3    | 46.4         | 77.7         |
| Y <sub>-,Ma</sub>  | 82.7              | -3.1    | 113.9        | 114.0        |
| G <sub>-,Ma</sub>  | 39.4              | -61.8   | 45.8         | 76.9         |
| C <sub>-,Ma</sub>  | 47.8              | -26.8   | -34.2        | 43.4         |
| B <sub>-,Ma</sub>  | 10.1              | 55.1    | -61.0        | 82.2         |
| M <sub>-,Ma</sub>  | 34.5              | 80.6    | -33.9        | 87.5         |
| N <sub>-,Ma</sub>  | 6.2               | 0.0     | 0.0          | 0.0          |
| W <sub>-,Ma</sub>  | 91.9              | 0.0     | 0.0          | 0.0          |
| R <sub>-,CIE</sub> | 39.9              | 58.7    | 27.9         | 65.0         |
| Y <sub>-,CIE</sub> | 81.2              | -2.8    | 71.5         | 71.6         |
| G <sub>-,CIE</sub> | 52.2              | -42.4   | 13.6         | 44.5         |
| B <sub>-,CIE</sub> | 30.5              | 1.4     | -46.4        | 46.4         |

Les données de couleur maximale (Ma):

$LabCh^*_{-,Ma}$ : 63 -30 -42 51 234

$HIC^*_{-,Ma}$ : G50B\_100\_100\_

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

0.0 1.0 1.0 1.0 1.0

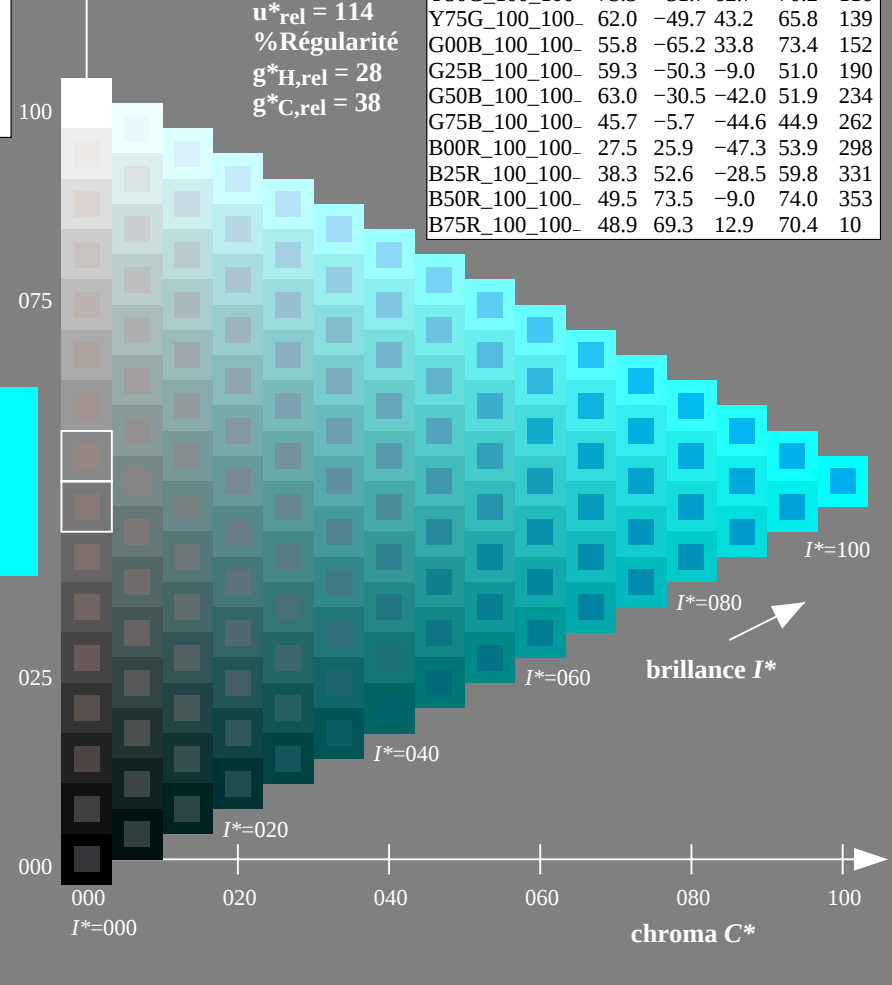
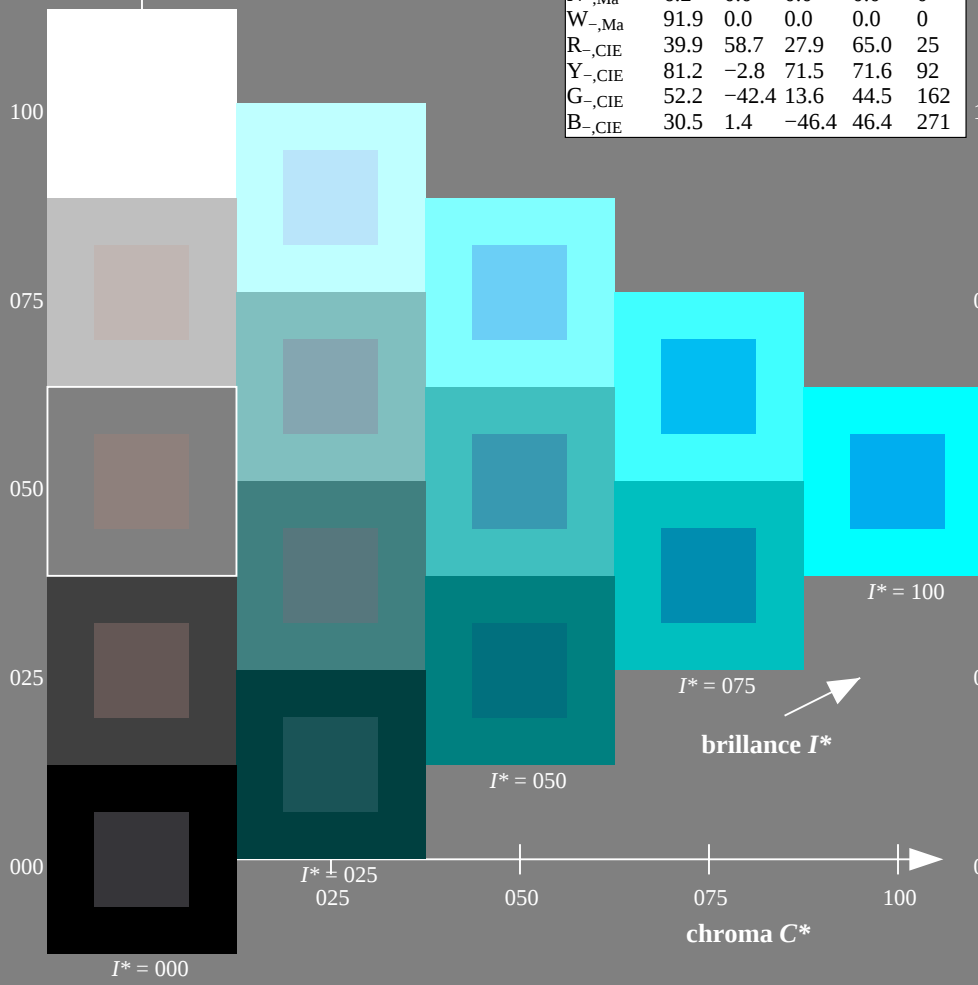
triangle de luminosité  $T^*$

% Gamme  
 $u^*_{rel} = 114$   
% Régularité  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

$H^*_ = G50B_-$

**ORS20a; données CIELAB (a) adaptées**

| $H^*_$        | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---------------|-------------------|---------|--------------|--------------|
| R00Y_100_100_ | 48.4              | 66.1    | 40.2         | 77.3         |
| R25Y_100_100_ | 56.8              | 48.0    | 50.5         | 69.6         |
| R50Y_100_100_ | 68.6              | 25.0    | 63.9         | 68.6         |
| R75Y_100_100_ | 80.6              | 4.8     | 77.2         | 77.3         |
| Y00G_100_100_ | 90.2              | -9.6    | 88.2         | 88.7         |
| Y25G_100_100_ | 83.2              | -18.4   | 79.9         | 81.9         |
| Y50G_100_100_ | 73.3              | -31.7   | 62.7         | 70.2         |
| Y75G_100_100_ | 62.0              | -49.7   | 43.2         | 65.8         |
| G00B_100_100_ | 55.8              | -65.2   | 33.8         | 73.4         |
| G25B_100_100_ | 59.3              | -50.3   | -9.0         | 51.0         |
| G50B_100_100_ | 63.0              | -30.5   | -42.0        | 51.9         |
| G75B_100_100_ | 45.7              | -5.7    | -44.6        | 44.9         |
| B00R_100_100_ | 27.5              | 25.9    | -47.3        | 53.9         |
| B25R_100_100_ | 38.3              | 52.6    | -28.5        | 59.8         |
| B50R_100_100_ | 49.5              | 73.5    | -9.0         | 74.0         |
| B75R_100_100_ | 48.9              | 69.3    | 12.9         | 70.4         |



3-013030-L0 QF990-7N

graphique TUB-QF99; code de teinte:  $H^*_ = G50B_-$   
graphique conforme à DIN 33872, 3D=0, de=1, cmyk

entrée :  $rgb/cmyk \rightarrow rgb/cmyk$   
sortie : aucun changement

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS  
application pour la mesure des sorties sur imprimante laser

TUB matériel: code=rha4ta

voir fichiers similaires: <http://130.149.60.45/~farbmetrik/QF99/QF99.HTM>  
informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 216/360 = 0.6$

$H^*_e = G50B_e$

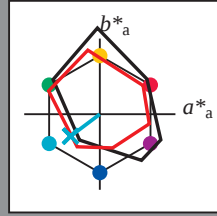
Données de couleurs périphériques (d)  
ou élémentaires (e):

$HIC^*_e$

code de teinte pour les couleurs de cette page:

$H^*_e = G50B_e$

triangle de luminosité  $T^*$



LRS18a; données CIELAB (a) adaptées

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

Les données de couleur maximale (Ma):

$LabCh^*_{e,Ma}$ : 54 -38 -29 48 216

$HIC^*_{e,Ma}$ : G50B\_100\_100\_e

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

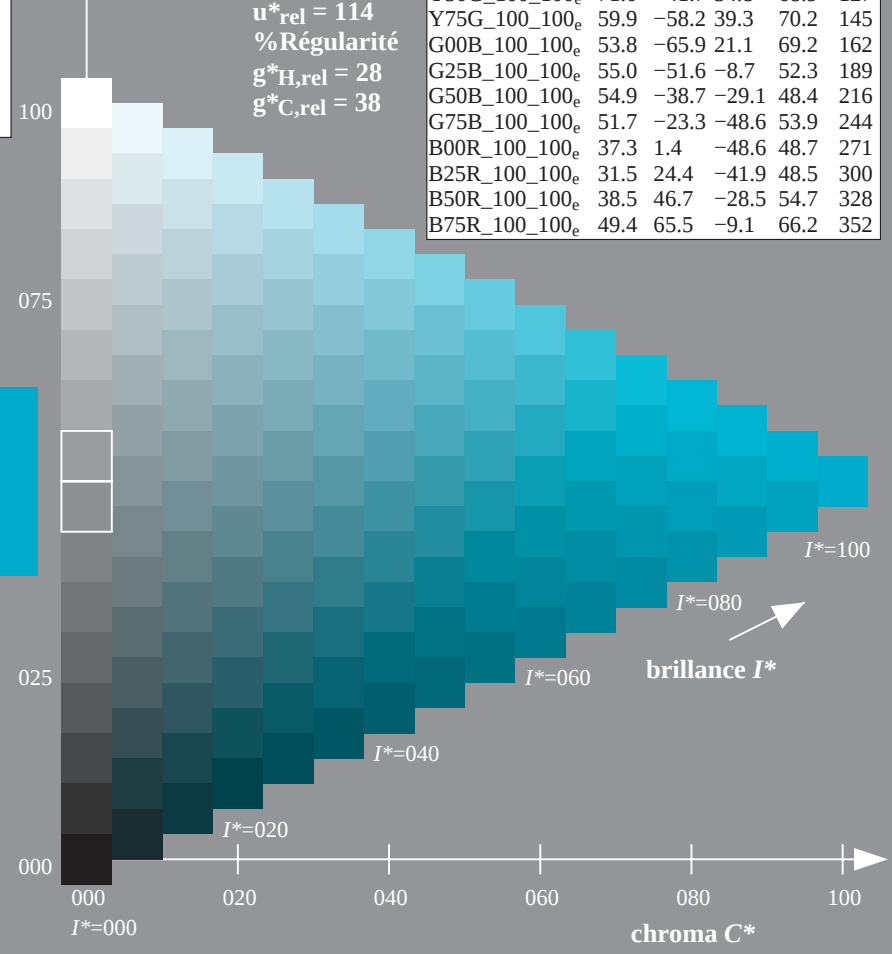
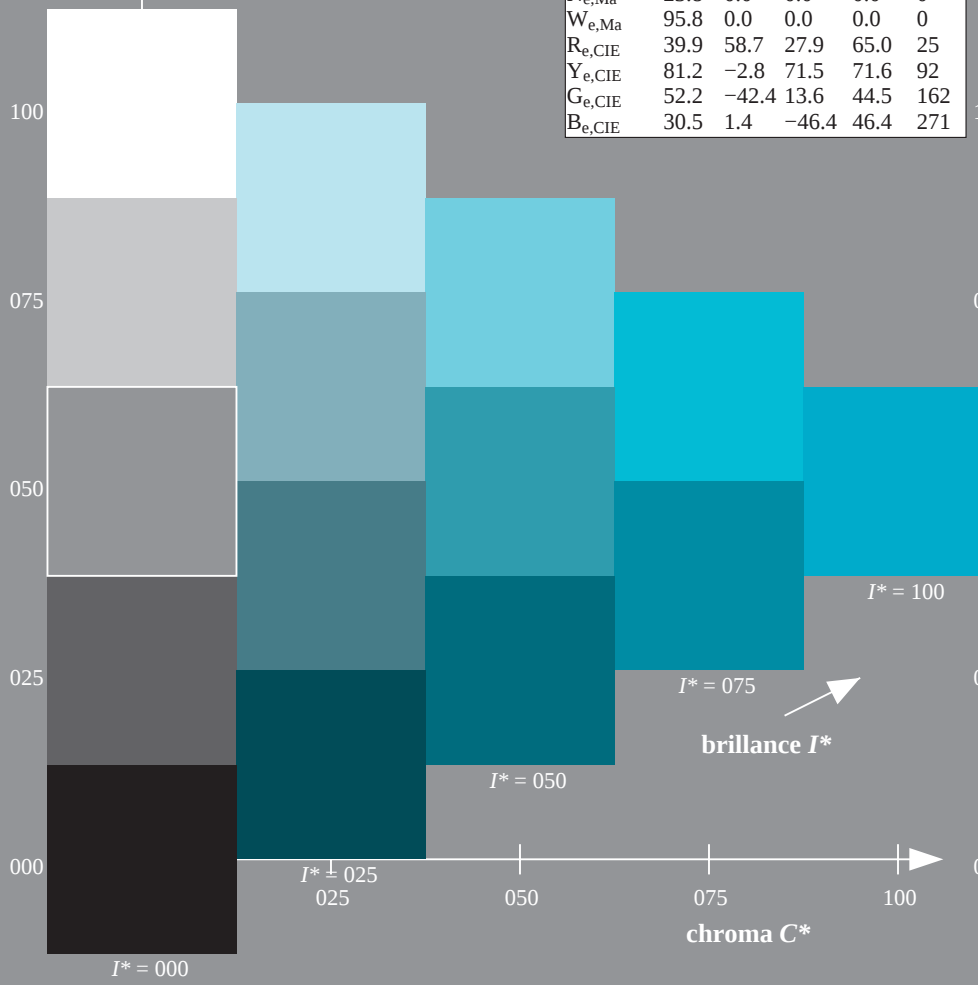
0.0 1.0 0.79 1.0 1.0

triangle de luminosité  $T^*$

% Gamme  
 $u^*_{rel} = 114$   
% Régularité  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

LRS18a; données CIELAB (a) adaptées

| $H^*_e$            | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------------|---------|--------------|--------------|
| $R00Y\_100\_100_e$ | 47.5              | 56.0    | 26.7         | 62.1         |
| $R25Y\_100\_100_e$ | 51.4              | 54.8    | 47.7         | 72.6         |
| $R50Y\_100\_100_e$ | 61.8              | 35.2    | 58.4         | 68.2         |
| $R75Y\_100\_100_e$ | 72.3              | 16.1    | 68.2         | 70.1         |
| $Y00G\_100\_100_e$ | 83.6              | -3.1    | 76.8         | 76.9         |
| $Y25G\_100\_100_e$ | 85.8              | -26.4   | 78.5         | 82.9         |
| $Y50G\_100\_100_e$ | 71.0              | -41.7   | 54.8         | 68.9         |
| $Y75G\_100\_100_e$ | 59.9              | -58.2   | 39.3         | 70.2         |
| $G00B\_100\_100_e$ | 53.8              | -65.9   | 21.1         | 69.2         |
| $G25B\_100\_100_e$ | 55.0              | -51.6   | -8.7         | 52.3         |
| $G50B\_100\_100_e$ | 54.9              | -38.7   | -29.1        | 48.4         |
| $G75B\_100\_100_e$ | 51.7              | -23.3   | -48.6        | 53.9         |
| $B00R\_100\_100_e$ | 37.3              | 1.4     | -48.6        | 48.7         |
| $B25R\_100\_100_e$ | 31.5              | 24.4    | -41.9        | 48.5         |
| $B50R\_100\_100_e$ | 38.5              | 46.7    | -28.5        | 54.7         |
| $B75R\_100\_100_e$ | 49.4              | 65.5    | -9.1         | 66.2         |

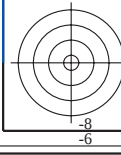
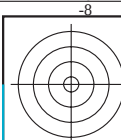
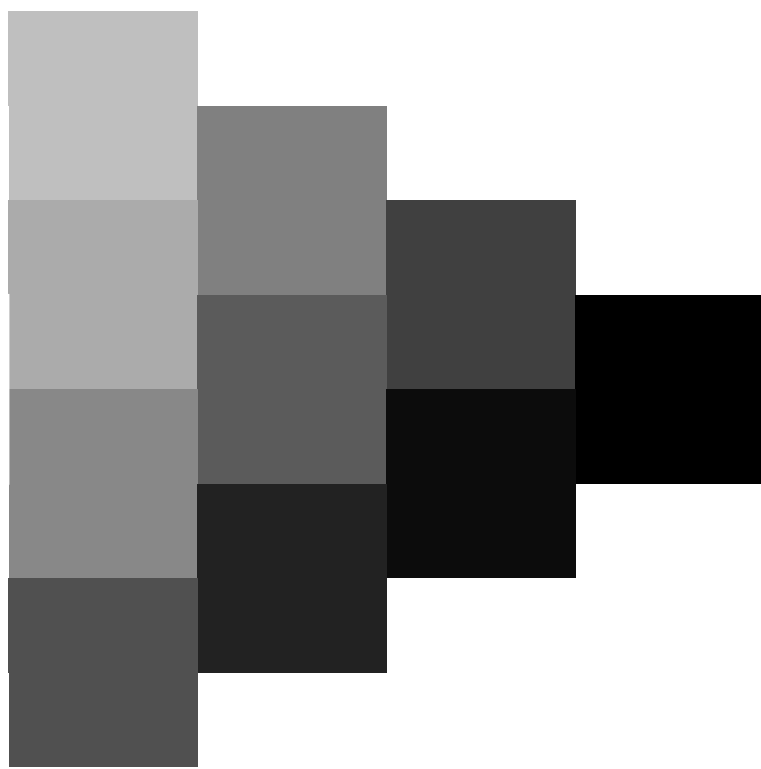
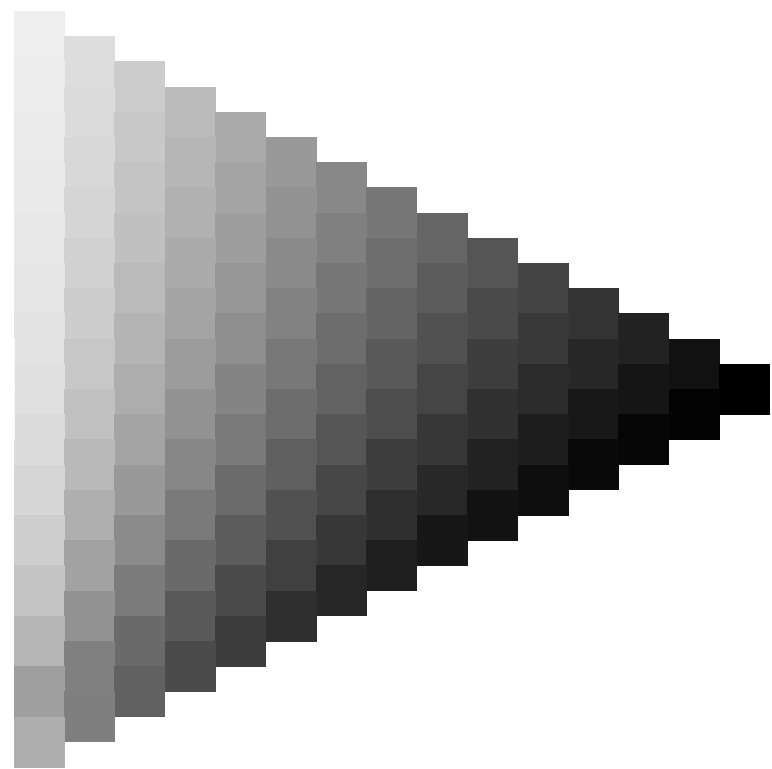
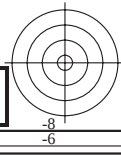
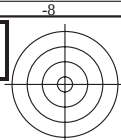


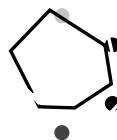
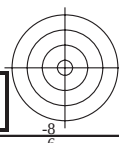
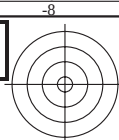
3-013130-L0 QF990-71

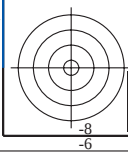
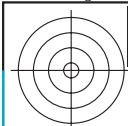
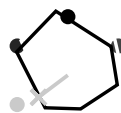
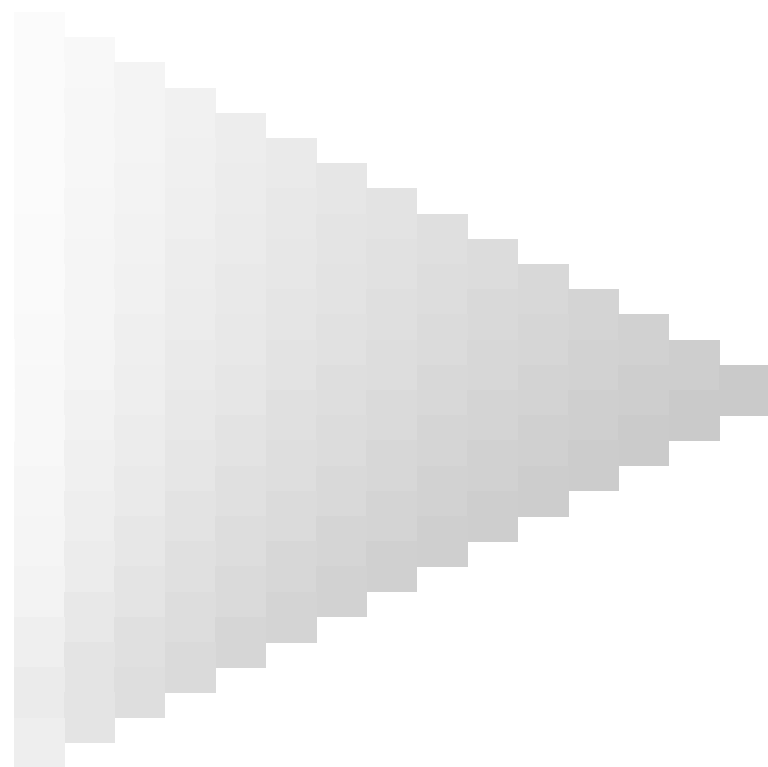
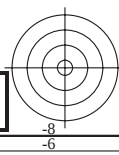
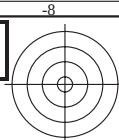
graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
graphique conforme à DIN 33872, 3D=0, de=1, cmyk

entrée :  $rgb/cmyk \rightarrow rgb_e$   
sortie : transférer à  $cmyk_e$

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS TUB matériel: code=rha4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyk6 (CMYK)







Entrée et sortie: Système Printer Reflective FRS06a pour la teinte CIELAB relative  $h_{ab,a,rel} = h_{ab}/360 = 216/360 = 0.6$

$H^*_e = G50B_e$

Données de couleurs périphériques (d)

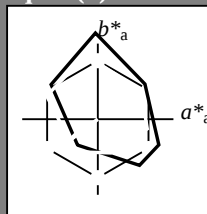
ou élémentaires (e):

$HIC^*_e$

code de teinte pour les couleurs de cette page:

$H^*_e = G50B_e$

triangle de luminosité  $T^*$



LRS18a; données CIELAB (a) adaptées

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

Les données de couleur maximale (Ma):

$LabCh^*_{e,Ma}$ : 54 -38 -29 48 216

$HIC^*_{e,Ma}$ : G50B\_100\_100\_e

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

0.0 1.0 0.79 1.0 1.0

triangle de luminosité  $T^*$

% Gamme

$u^*_{rel} = 114$

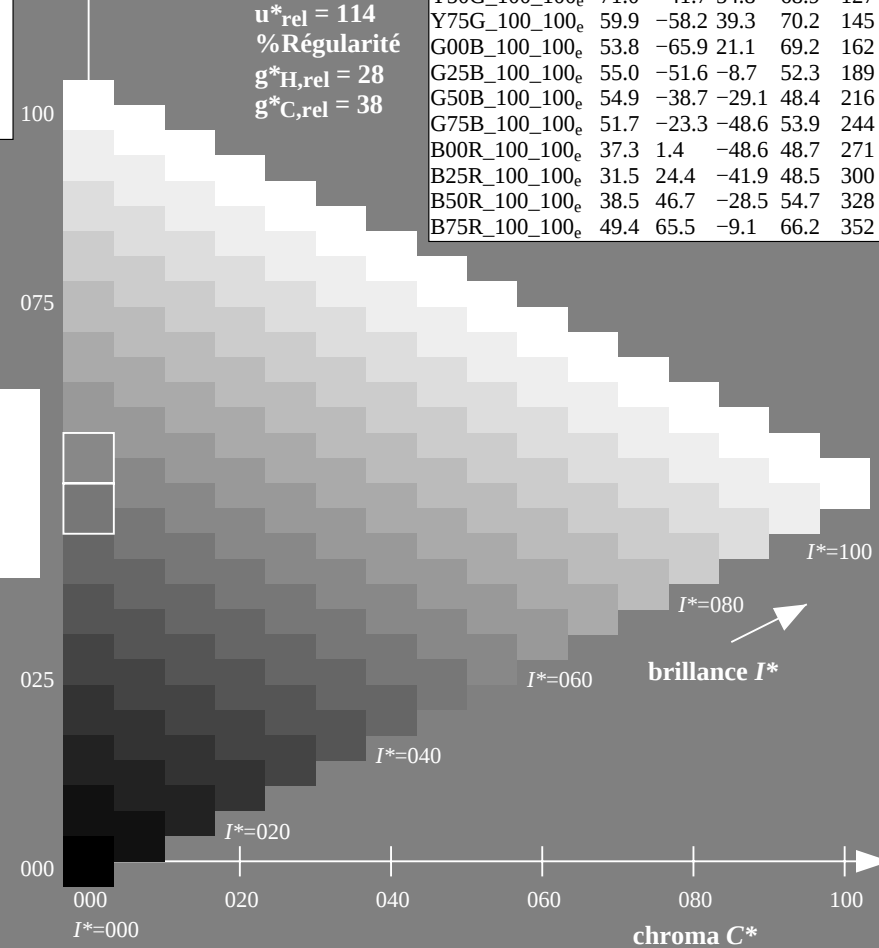
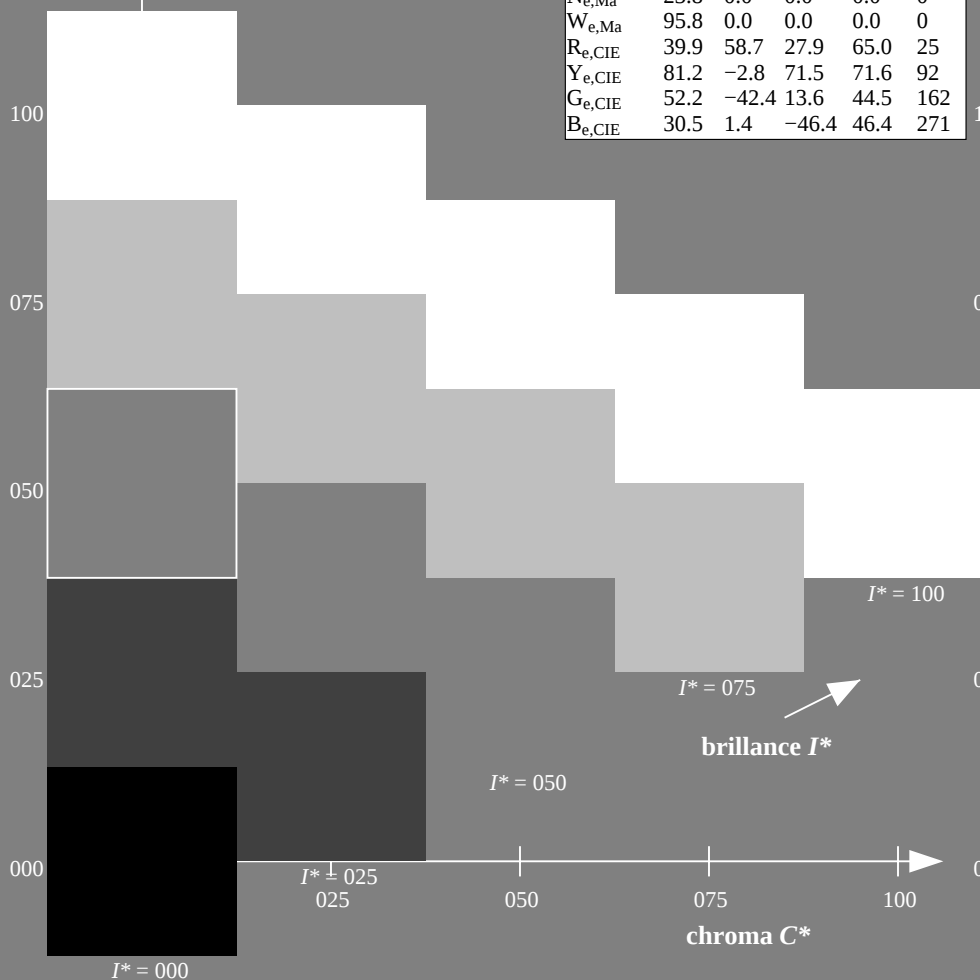
% Régularité

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

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

LRS18a; données CIELAB (a) adaptées

| $H^*_e$            | $L^*=L^*_a a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------------|---------|--------------|--------------|
| $R00Y_{100_100_e}$ | 47.5              | 56.0    | 26.7         | 62.1         |
| $R25Y_{100_100_e}$ | 51.4              | 54.8    | 47.7         | 72.6         |
| $R50Y_{100_100_e}$ | 61.8              | 35.2    | 58.4         | 68.2         |
| $R75Y_{100_100_e}$ | 72.3              | 16.1    | 68.2         | 70.1         |
| $Y00G_{100_100_e}$ | 83.6              | -3.1    | 76.8         | 76.9         |
| $Y25G_{100_100_e}$ | 85.8              | -26.4   | 78.5         | 82.9         |
| $Y50G_{100_100_e}$ | 71.0              | -41.7   | 54.8         | 68.9         |
| $Y75G_{100_100_e}$ | 59.9              | -58.2   | 39.3         | 70.2         |
| $G00B_{100_100_e}$ | 53.8              | -65.9   | 21.1         | 69.2         |
| $G25B_{100_100_e}$ | 55.0              | -51.6   | -8.7         | 52.3         |
| $G50B_{100_100_e}$ | 54.9              | -38.7   | -29.1        | 48.4         |
| $G75B_{100_100_e}$ | 51.7              | -23.3   | -48.6        | 53.9         |
| $B00R_{100_100_e}$ | 37.3              | 1.4     | -48.6        | 48.7         |
| $B25R_{100_100_e}$ | 31.5              | 24.4    | -41.9        | 48.5         |
| $B50R_{100_100_e}$ | 38.5              | 46.7    | -28.5        | 54.7         |
| $B75R_{100_100_e}$ | 49.4              | 65.5    | -9.1         | 66.2         |



graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
graphique conforme à DIN 33872, 3D=0, de=1, cmyk

entrée :  $rgb/cmyk \rightarrow rgb_e$   
sortie : transférer à  $cmyk_e$

Couleur maximale dans le système colorimétrique : Laser printer output; separation cmy6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$   
 $LCH^*_d = 91.5 \ 86.1 \ 100.5$   
 $LAB^*_d = 91.5 \ -15.8 \ 84.6$   
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$   
 $LCH^*_d = 54.3 \ 74.3 \ 155.5$   
 $LAB^*_d = 54.3 \ -67.6 \ 30.8$   
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$   
 $LCH^*_d = 53.1 \ 52.5 \ 235.1$   
 $LAB^*_d = 53.1 \ -30.0 \ -43.1$   
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$   
 $LCH^*_d = 47.5 \ 68.6 \ 33.4$   
 $LAB^*_d = 47.5 \ 57.2 \ 37.8$   
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$   
 $LCH^*_d = 48.1 \ 66.6 \ 348.9$   
 $LAB^*_d = 48.1 \ 65.4 \ -12.7$   
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$   
 $LCH^*_d = 32.5 \ 47.7 \ 290.8$   
 $LAB^*_d = 32.5 \ 16.9 \ -44.6$   
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

$Y_e$   
 $LCH^*_e = 83.6 \ 76.9 \ 92.3$   
 $LAB^*_e = 83.6 \ -3.1 \ 76.8$   
 $rgb^*_{de} = 1.0 \ 0.768 \ 0.0$

$G_e$   
 $LCH^*_e = 53.8 \ 69.2 \ 162.2$   
 $LAB^*_e = 53.8 \ -65.9 \ 21.1$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.146$

$C_e$   
 $LCH^*_e = 54.9 \ 48.4 \ 216.9$   
 $LAB^*_e = 54.9 \ -38.7 \ -29.1$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.791$

$B_e$   
 $LCH^*_e = 37.3 \ 48.7 \ 271.7$   
 $LAB^*_e = 37.3 \ 1.4 \ -48.6$   
 $rgb^*_{de} = 0.0 \ 0.261 \ 1.0$

$R_e$   
 $LCH^*_e = 47.5 \ 62.1 \ 25.4$   
 $LAB^*_e = 47.5 \ 56.0 \ 26.7$   
 $rgb^*_{de} = 1.0 \ 0.0 \ 0.263$

$M_e$   
 $LCH^*_e = 38.5 \ 54.7 \ 328.6$   
 $LAB^*_e = 38.5 \ 46.7 \ -28.5$   
 $rgb^*_{de} = 0.584 \ 0.0 \ 1.0$

$Y_s$   
 $LCH^*_s = 81.8 \ 76.2 \ 90.0$   
 $LAB^*_s = 81.8 \ 0.0 \ 76.2$   
 $rgb^*_{ds} = 1.0 \ 0.732 \ 0.0$

$G_s$   
 $LCH^*_s = 57.6 \ 70.9 \ 150.0$   
 $LAB^*_s = 57.6 \ -61.4 \ 35.4$   
 $rgb^*_{ds} = 0.145 \ 1.0 \ 0.0$

$C_s$   
 $LCH^*_s = 55.2 \ 48.1 \ 210.0$   
 $LAB^*_s = 55.2 \ -41.7 \ -24.0$   
 $rgb^*_{ds} = 0.0 \ 1.0 \ 0.694$

$B_s$   
 $LCH^*_s = 38.0 \ 48.9 \ 270.0$   
 $LAB^*_s = 38.0 \ 0.0 \ -48.9$   
 $rgb^*_{ds} = 0.0 \ 0.283 \ 1.0$

$R_s$   
 $LCH^*_s = 47.6 \ 65.0 \ 30.0$   
 $LAB^*_s = 47.6 \ 56.3 \ 32.5$   
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.157$

$M_s$   
 $LCH^*_s = 38.9 \ 55.3 \ 330.0$   
 $LAB^*_s = 38.9 \ 47.9 \ -27.6$   
 $rgb^*_{ds} = 0.612 \ 0.0 \ 1.0$

$(a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)$

$rgb^*_d, LCH^*_d, LAB^*_d$

$h_{ab,s}, rgb^*_s$

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

$h_{ab,s}$

$s: h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6)$

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

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

$h_{ab,e}$

$e: h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6)$

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

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

$h_{ab,d}$

$rgb^*_{de}$



Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyn6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_c$ ;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six angles de teinte des couleurs périphériques  $RYGCBM_d$ ;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ ;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd64M}$ | $LAB^*_{ddx64M}$ (x=LabCh) |       | $rgb^*_{dex361M}$ | $LAB^*_{dex361M}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |
|------------|------------|------------|-----------------|----------------------------|-------|-------------------|-------------------|--------------|--------------|--------------|
| 33.4       | 30.0       | 25.4       | 1.0             | 0.0                        | 0.0   | 47.5              | 57.2              | 37.8         | 68.6         | 33.4         |
| 42.1       | 37.5       | 33.8       | 1.0             | 0.125                      | 0.0   | 51.9              | 54.3              | 49.2         | 73.2         | 42.1         |
| 52.8       | 45.0       | 42.1       | 1.0             | 0.25                       | 0.0   | 58.2              | 41.8              | 55.1         | 69.2         | 52.8         |
| 63.7       | 52.5       | 50.5       | 1.0             | 0.375                      | 0.0   | 64.6              | 29.8              | 60.4         | 67.3         | 63.7         |
| 73.8       | 60.0       | 58.8       | 1.0             | 0.5                        | 0.0   | 70.5              | 19.2              | 66.2         | 69.0         | 73.8         |
| 80.7       | 67.5       | 67.2       | 1.0             | 0.625                      | 0.0   | 74.9              | 11.4              | 70.7         | 71.6         | 80.7         |
| 91.5       | 75.0       | 75.6       | 1.0             | 0.75                       | 0.0   | 82.9              | -2.0              | 76.9         | 77.0         | 91.5         |
| 96.8       | 82.5       | 83.9       | 1.0             | 0.875                      | 0.0   | 87.6              | -9.0              | 75.7         | 76.3         | 96.8         |
| 100.5      | 90.0       | 92.3       | 1.0             | 1.0                        | 0.0   | 91.5              | -15.8             | 84.6         | 86.1         | 100.5        |
| 101.4      | 97.5       | 101.0      | 0.875           | 1.0                        | 0.0   | 92.8              | -18.1             | 89.4         | 91.2         | 101.4        |
| 103.9      | 105.0      | 109.7      | 0.75            | 1.0                        | 0.0   | 90.1              | -21.3             | 86.0         | 88.6         | 103.9        |
| 115.0      | 112.5      | 118.5      | 0.625           | 1.0                        | 0.0   | 79.9              | -31.7             | 67.9         | 75.0         | 115.0        |
| 127.3      | 120.0      | 127.2      | 0.5             | 1.0                        | 0.0   | 70.9              | -41.7             | 54.8         | 68.9         | 127.3        |
| 134.7      | 127.5      | 136.0      | 0.375           | 1.0                        | 0.0   | 66.5              | -47.5             | 48.0         | 67.6         | 134.7        |
| 144.7      | 135.0      | 144.7      | 0.25            | 1.0                        | 0.0   | 60.6              | -57.2             | 40.4         | 70.1         | 144.7        |
| 151.0      | 142.5      | 153.4      | 0.125           | 1.0                        | 0.0   | 57.0              | -62.2             | 34.4         | 71.1         | 151.0        |
| 155.5      | 150.0      | 162.2      | 0.0             | 1.0                        | 0.0   | 54.3              | -67.6             | 30.8         | 74.3         | 155.5        |
| 160.8      | 157.5      | 169.0      | 0.0             | 1.0                        | 0.125 | 53.8              | -66.4             | 23.0         | 70.2         | 160.8        |
| 168.5      | 165.0      | 175.9      | 0.0             | 1.0                        | 0.25  | 53.7              | -63.1             | 12.8         | 64.4         | 168.5        |
| 179.9      | 172.5      | 182.7      | 0.0             | 1.0                        | 0.375 | 54.7              | -56.8             | 0.0          | 56.8         | 179.9        |
| 189.8      | 180.0      | 189.6      | 0.0             | 1.0                        | 0.5   | 55.0              | -51.4             | -8.9         | 52.2         | 189.8        |
| 204.4      | 187.5      | 196.4      | 0.0             | 1.0                        | 0.625 | 55.3              | -44.1             | -20.0        | 48.5         | 204.4        |
| 214.4      | 195.0      | 203.2      | 0.0             | 1.0                        | 0.75  | 55.2              | -39.5             | -27.1        | 47.9         | 214.4        |
| 221.9      | 202.5      | 210.1      | 0.0             | 1.0                        | 0.875 | 54.4              | -36.7             | -33.0        | 49.4         | 221.9        |
| 235.1      | 210.0      | 216.9      | 0.0             | 1.0                        | 1.0   | 53.1              | -30.0             | -43.1        | 52.5         | 235.1        |
| 237.9      | 217.5      | 223.8      | 0.0             | 0.875                      | 1.0   | 53.1              | -27.9             | -44.7        | 52.7         | 237.9        |
| 241.3      | 225.0      | 230.6      | 0.0             | 0.75                       | 1.0   | 52.9              | -25.9             | -47.5        | 54.1         | 241.3        |
| 247.2      | 232.5      | 237.5      | 0.0             | 0.625                      | 1.0   | 50.5              | -20.8             | -49.5        | 53.7         | 247.2        |
| 254.9      | 240.0      | 244.3      | 0.0             | 0.5                        | 1.0   | 46.1              | -13.3             | -49.4        | 51.1         | 254.9        |
| 262.6      | 247.5      | 251.2      | 0.0             | 0.375                      | 1.0   | 41.4              | -6.3              | -49.2        | 49.6         | 262.6        |
| 272.6      | 255.0      | 258.0      | 0.0             | 0.25                       | 1.0   | 36.8              | 2.2               | -48.5        | 48.6         | 272.6        |
| 281.4      | 262.5      | 264.8      | 0.0             | 0.125                      | 1.0   | 35.0              | 9.4               | -46.3        | 47.3         | 281.4        |
| 290.8      | 270.0      | 271.7      | 0.0             | 0.0                        | 1.0   | 32.5              | 16.9              | -44.6        | 47.7         | 290.8        |
| 299.2      | 277.5      | 278.8      | 0.125           | 0.0                        | 1.0   | 31.6              | 23.6              | -42.2        | 48.4         | 299.2        |
| 307.8      | 285.0      | 285.9      | 0.25            | 0.0                        | 1.0   | 31.0              | 30.5              | -39.3        | 49.8         | 307.8        |
| 317.5      | 292.5      | 293.0      | 0.375           | 0.0                        | 1.0   | 34.2              | 38.2              | -35.0        | 51.8         | 317.5        |
| 324.4      | 300.0      | 300.1      | 0.5             | 0.0                        | 1.0   | 37.2              | 43.1              | -30.8        | 53.0         | 324.4        |
| 330.6      | 307.5      | 307.2      | 0.625           | 0.0                        | 1.0   | 39.1              | 48.4              | -27.2        | 55.6         | 330.6        |
| 338.7      | 315.0      | 314.3      | 0.75            | 0.0                        | 1.0   | 41.8              | 55.1              | -21.4        | 59.1         | 338.7        |
| 343.9      | 322.5      | 321.4      | 0.875           | 0.0                        | 1.0   | 45.6              | 60.1              | -17.3        | 62.6         | 343.9        |
| 348.9      | 330.0      | 328.6      | 1.0             | 0.0                        | 1.0   | 48.1              | 65.4              | -12.7        | 66.6         | 348.9        |
| 350.7      | 337.5      | 335.7      | 1.0             | 0.0                        | 0.875 | 49.5              | 66.1              | -10.7        | 67.0         | 350.7        |
| 354.2      | 345.0      | 342.8      | 1.0             | 0.0                        | 0.75  | 49.3              | 64.5              | -6.5         | 64.8         | 354.2        |
| 361.9      | 352.5      | 349.9      | 1.0             | 0.0                        | 0.625 | 48.0              | 61.8              | 2.1          | 61.8         | 361.9        |
| 370.0      | 360.0      | 357.0      | 1.0             | 0.0                        | 0.5   | 47.8              | 58.9              | 10.4         | 59.9         | 370.0        |
| 378.9      | 367.5      | 364.1      | 1.0             | 0.0                        | 0.375 | 47.4              | 56.8              | 19.5         | 60.0         | 378.9        |
| 386.2      | 375.0      | 371.2      | 1.0             | 0.0                        | 0.25  | 47.5              | 55.9              | 27.5         | 62.3         | 386.2        |
| 391.3      | 382.5      | 378.3      | 1.0             | 0.0                        | 0.125 | 47.6              | 56.3              | 34.2         | 65.9         | 391.3        |
| 393.4      | 390.0      | 385.4      | 1.0             | 0.0                        | 0.0   | 47.5              | 57.2              | 37.8         | 68.6         | 393.4        |

3-013830-L0

QF990-71

LAB\*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*nmw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

sortie: Laser printer output; separation cmyn6\*, D65, page 9/33

graphique TUB-QF99; code de teinte:  $H^*_e = G50B_e$   
cercle chromatique 48 paliers; tableaux  $rgb-LabCh^*$

entrée :  $rgb/cmyk \rightarrow rgb_e$   
sortie : transférer à  $cmyk_e$

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS  
application pour la mesure des sorties sur imprimante laser, séparation cmyn6 (CMYK)  
TUB matériel: code=rha4ta

| Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyn6*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard RYGBM <sub>s</sub> ; h <sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six angles de teinte des couleurs périphériques RYGBM <sub>g</sub> ; h <sub>ab,d</sub> = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six angles de teinte des couleurs élémentaires RYGBM <sub>e</sub> ; h <sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6 |    |    |            |       |     |                        |      |      |                |      |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|------------|-------|-----|------------------------|------|------|----------------|------|----------------|
| h <sub>ab,d</sub> h <sub>ab,s</sub> h <sub>ab,e</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |    | rgb*dd361M |       |     | LAB*ddx361Mi (x=LabCh) |      |      | R <sub>d</sub> |      |                |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30 | 25 | 1.0        | 0.0   | 0.0 | 47.5                   | 57.2 | 37.8 | 68.6           | 33   | R <sub>d</sub> |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31 | 26 | 1.0        | 0.016 | 0.0 | 48.1                   | 56.9 | 39.3 | 69.2           | 34   | 1.0            |
| 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 32 | 27 | 1.0        | 0.033 | 0.0 | 48.7                   | 56.6 | 40.8 | 69.8           | 35   | 1.0            |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 33 | 28 | 1.0        | 0.05  | 0.0 | 49.3                   | 56.3 | 42.3 | 70.4           | 36   | 1.0            |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 34 | 29 | 1.0        | 0.066 | 0.0 | 49.9                   | 55.9 | 43.9 | 71.1           | 38   | 1.0            |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 35 | 31 | 1.0        | 0.083 | 0.0 | 50.5                   | 55.5 | 45.4 | 71.7           | 39   | 1.0            |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36 | 32 | 1.0        | 0.1   | 0.0 | 51.0                   | 55.0 | 46.9 | 72.3           | 40   | 1.0            |
| 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37 | 33 | 1.0        | 0.116 | 0.0 | 51.6                   | 54.5 | 48.4 | 72.9           | 41   | 1.0            |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 38 | 34 | 1.0        | 0.133 | 0.0 | 52.3                   | 53.4 | 49.7 | 73.0           | 42   | 1.0            |
| 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 39 | 35 | 1.0        | 0.15  | 0.0 | 53.2                   | 51.8 | 50.6 | 72.4           | 44   | 1.0            |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40 | 36 | 1.0        | 0.166 | 0.0 | 54.0                   | 50.2 | 51.5 | 71.9           | 45   | 1.0            |
| 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 41 | 37 | 1.0        | 0.183 | 0.0 | 54.9                   | 48.5 | 52.3 | 71.4           | 47   | 1.0            |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 42 | 38 | 1.0        | 0.2   | 0.0 | 55.7                   | 46.8 | 53.1 | 70.8           | 48   | 1.0            |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 43 | 39 | 1.0        | 0.216 | 0.0 | 56.6                   | 45.2 | 53.8 | 70.3           | 50   | 1.0            |
| 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 44 | 41 | 1.0        | 0.233 | 0.0 | 57.4                   | 43.5 | 54.5 | 69.7           | 51   | 1.0            |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 45 | 42 | 1.0        | 0.25  | 0.0 | 58.2                   | 41.8 | 55.1 | 69.2           | 52   | 1.0            |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 46 | 43 | 1.0        | 0.266 | 0.0 | 59.1                   | 40.2 | 56.0 | 69.0           | 54   | 1.0            |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 47 | 44 | 1.0        | 0.283 | 0.0 | 59.9                   | 38.6 | 56.8 | 68.7           | 55   | 1.0            |
| 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48 | 45 | 1.0        | 0.3   | 0.0 | 60.8                   | 37.1 | 57.5 | 68.5           | 57   | 1.0            |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 49 | 46 | 1.0        | 0.316 | 0.0 | 61.6                   | 35.5 | 58.2 | 68.2           | 58   | 1.0            |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50 | 47 | 1.0        | 0.333 | 0.0 | 62.5                   | 33.9 | 58.9 | 68.0           | 60   | 1.0            |
| 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51 | 48 | 1.0        | 0.35  | 0.0 | 63.3                   | 32.2 | 59.5 | 67.7           | 61   | 1.0            |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52 | 49 | 1.0        | 0.366 | 0.0 | 64.2                   | 30.6 | 60.1 | 67.5           | 63   | 1.0            |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 53 | 51 | 1.0        | 0.383 | 0.0 | 65.0                   | 29.1 | 60.8 | 67.4           | 64   | 1.0            |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54 | 52 | 1.0        | 0.4   | 0.0 | 65.8                   | 27.8 | 61.7 | 67.7           | 65   | 1.0            |
| 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55 | 53 | 1.0        | 0.416 | 0.0 | 66.6                   | 26.4 | 62.5 | 67.9           | 67   | 1.0            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56 | 54 | 1.0        | 0.433 | 0.0 | 67.3                   | 25.0 | 63.3 | 68.1           | 68   | 1.0            |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57 | 55 | 1.0        | 0.45  | 0.0 | 68.1                   | 23.6 | 64.1 | 68.3           | 69   | 1.0            |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 58 | 56 | 1.0        | 0.466 | 0.0 | 68.9                   | 22.1 | 64.8 | 68.5           | 71   | 1.0            |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 59 | 57 | 1.0        | 0.483 | 0.0 | 69.7                   | 20.7 | 65.6 | 68.8           | 72   | 1.0            |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60 | 58 | 1.0        | 0.5   | 0.0 | 70.5                   | 19.2 | 66.2 | 69.0           | 73   | 1.0            |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 61 | 60 | 1.0        | 0.516 | 0.0 | 71.0                   | 18.2 | 66.9 | 69.3           | 74   | 1.0            |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 62 | 61 | 1.0        | 0.533 | 0.0 | 71.6                   | 17.2 | 67.5 | 69.7           | 75   | 1.0            |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 63 | 62 | 1.0        | 0.55  | 0.0 | 72.2                   | 16.2 | 68.1 | 70.0           | 76   | 1.0            |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 64 | 63 | 1.0        | 0.566 | 0.0 | 72.8                   | 15.1 | 68.7 | 70.4           | 77   | 1.0            |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65 | 64 | 1.0        | 0.583 | 0.0 | 73.4                   | 14.1 | 69.3 | 70.7           | 78   | 1.0            |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66 | 65 | 1.0        | 0.6   | 0.0 | 74.0                   | 13.0 | 69.9 | 71.1           | 79   | 1.0            |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67 | 66 | 1.0        | 0.616 | 0.0 | 74.6                   | 12.0 | 70.4 | 71.4           | 80   | 1.0            |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 68 | 67 | 1.0        | 0.633 | 0.0 | 75.4                   | 10.6 | 71.2 | 72.0           | 81   | 1.0            |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 69 | 68 | 1.0        | 0.65  | 0.0 | 76.5                   | 8.9  | 72.1 | 72.7           | 82   | 1.0            |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70 | 70 | 1.0        | 0.666 | 0.0 | 77.5                   | 7.2  | 73.0 | 73.4           | 84   | 1.0            |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 71 | 71 | 1.0        | 0.683 | 0.0 | 78.6                   | 5.4  | 73.9 | 74.1           | 85   | 1.0            |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 72 | 72 | 1.0        | 0.7   | 0.0 | 79.7                   | 3.6  | 74.7 | 74.8           | 87   | 1.0            |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73 | 73 | 1.0        | 0.716 | 0.0 | 80.8                   | 1.7  | 75.5 | 75.5           | 88   | 1.0            |
| -269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 74 | 74 | 1.0        | 0.733 | 0.0 | 81.8                   | -0.1 | 76.3 | 76.3           | -269 | 1.0            |
| -268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 75 | 75 | 1.0        | 0.75  | 0.0 | 82.9                   | -2.0 | 76.9 | 77.0           | -268 | 1.0            |
| 3-013930-L0 QF990-71 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nmw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |            |       |     |                        |      |      |                |      |                |
| graphique TUB-QF99; code de teinte: H*e=G50B <sub>e</sub> entrée : rgb/cmyk -> rgb <sub>e</sub><br>cercle chromatique 48 paliers; tableaux rgb-LabCh* sortie : transférer à cmyk <sub>e</sub>                                                                                                                                                                                                                                                                                                                                 |    |    |            |       |     |                        |      |      |                |      |                |
| 3-013930-F0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |    |            |       |     |                        |      |      |                |      |                |

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT / .PS TUB matériel: code=rh4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyn6 (CMYK)



Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyk6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s; h_{a,b,d,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;$

Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

|     | $a_b$ | $b_{ab}$ | $b_{ab,e}$ | $rgb^*$ -dd361M |       |      |       | $LAB^*$ -dxd361Mi (x=LabCh) |      |     |             | $rgb^*$ -ds361Mi |       |      |       | $LAB^*$ -dsx361Mi (x=LabCh) |      |              |       | $rgb^*$ -dd361Mi |       |       |       | $rgb^*$ -de361Mi |       |       |      | $LAB^*$ -dex361Mi (x=LabCh) |     |       |     | $rgb^*$ -dd361Mi |  |  |  | $rgb^*_d$ | $rgb^*_s$ | $rgb^*_e$ |
|-----|-------|----------|------------|-----------------|-------|------|-------|-----------------------------|------|-----|-------------|------------------|-------|------|-------|-----------------------------|------|--------------|-------|------------------|-------|-------|-------|------------------|-------|-------|------|-----------------------------|-----|-------|-----|------------------|--|--|--|-----------|-----------|-----------|
| 127 | 120   | 127      | 0.5        | 1.0             | 0.0   | 70.9 | -41.7 | 54.8                        | 68.9 | 127 | 0.574       | 1.0              | 0.0   | 76.3 | -36.2 | 62.8                        | 72.6 | 120          | 0.5   | 1.0              | 0.0   | 0.501 | 1.0   | 0.0              | 71.0  | -41.6 | 54.9 | 68.9                        | 127 | 0.5   | 1.0 | 0.0              |  |  |  |           |           |           |
| 128 | 121   | 128      | 0.483      | 1.0             | 0.0   | 70.4 | -42.6 | 53.9                        | 68.7 | 128 | 0.564       | 1.0              | 0.0   | 75.6 | -37.0 | 61.8                        | 72.1 | 121          | 0.483 | 1.0              | 0.0   | 0.481 | 1.0   | 0.0              | 70.3  | -42.6 | 53.8 | 68.7                        | 128 | 0.483 | 1.0 | 0.0              |  |  |  |           |           |           |
| 129 | 122   | 129      | 0.466      | 1.0             | 0.0   | 69.8 | -43.4 | 53.0                        | 68.5 | 129 | 0.554       | 1.0              | 0.0   | 74.9 | -37.8 | 60.7                        | 71.6 | 122          | 0.467 | 1.0              | 0.0   | 0.462 | 1.0   | 0.0              | 69.6  | -43.6 | 52.8 | 68.5                        | 129 | 0.467 | 1.0 | 0.0              |  |  |  |           |           |           |
| 130 | 123   | 130      | 0.45       | 1.0             | 0.0   | 69.2 | -44.2 | 52.1                        | 68.3 | 130 | 0.544       | 1.0              | 0.0   | 74.1 | -38.6 | 59.6                        | 71.1 | 123          | 0.45  | 1.0              | 0.0   | 0.442 | 1.0   | 0.0              | 68.9  | -44.5 | 51.7 | 68.3                        | 130 | 0.45  | 1.0 | 0.0              |  |  |  |           |           |           |
| 131 | 124   | 131      | 0.433      | 1.0             | 0.0   | 68.6 | -45.0 | 51.2                        | 68.2 | 131 | 0.534       | 1.0              | 0.0   | 73.4 | -39.4 | 58.5                        | 70.6 | 124          | 0.433 | 1.0              | 0.0   | 0.422 | 1.0   | 0.0              | 68.3  | -45.4 | 50.7 | 68.1                        | 131 | 0.433 | 1.0 | 0.0              |  |  |  |           |           |           |
| 132 | 125   | 133      | 0.416      | 1.0             | 0.0   | 68.0 | -45.7 | 50.3                        | 68.0 | 132 | 0.524       | 1.0              | 0.0   | 72.7 | -40.1 | 57.4                        | 70.1 | 125          | 0.417 | 1.0              | 0.0   | 0.403 | 1.0   | 0.0              | 67.6  | -46.3 | 49.6 | 67.9                        | 133 | 0.417 | 1.0 | 0.0              |  |  |  |           |           |           |
| 133 | 126   | 134      | 0.4        | 1.0             | 0.0   | 67.4 | -46.5 | 49.4                        | 67.8 | 133 | 0.513       | 1.0              | 0.0   | 72.0 | -40.8 | 56.3                        | 69.6 | 126          | 0.4   | 1.0              | 0.0   | 0.383 | 1.0   | 0.0              | 66.9  | -47.1 | 48.5 | 67.7                        | 134 | 0.4   | 1.0 | 0.0              |  |  |  |           |           |           |
| 134 | 127   | 135      | 0.383      | 1.0             | 0.0   | 66.8 | -47.2 | 48.5                        | 67.7 | 134 | 0.503       | 1.0              | 0.0   | 71.2 | -41.5 | 55.2                        | 69.1 | 127          | 0.383 | 1.0              | 0.0   | 0.366 | 1.0   | 0.0              | 66.2  | -48.2 | 47.6 | 67.8                        | 135 | 0.383 | 1.0 | 0.0              |  |  |  |           |           |           |
| 135 | 128   | 136      | 0.366      | 1.0             | 0.0   | 66.1 | -48.2 | 47.5                        | 67.7 | 135 | 0.489       | 1.0              | 0.0   | 70.6 | -42.3 | 54.2                        | 68.8 | 128          | 0.367 | 1.0              | 0.0   | 0.352 | 1.0   | 0.0              | 65.5  | -49.4 | 46.8 | 68.1                        | 136 | 0.367 | 1.0 | 0.0              |  |  |  |           |           |           |
| 136 | 129   | 137      | 0.35       | 1.0             | 0.0   | 65.4 | -49.5 | 46.6                        | 68.1 | 136 | 0.472       | 1.0              | 0.0   | 70.0 | -43.1 | 53.3                        | 68.6 | 129          | 0.35  | 1.0              | 0.0   | 0.337 | 1.0   | 0.0              | 64.8  | -50.5 | 46.0 | 68.4                        | 137 | 0.35  | 1.0 | 0.0              |  |  |  |           |           |           |
| 138 | 130   | 138      | 0.333      | 1.0             | 0.0   | 64.6 | -50.9 | 45.7                        | 68.4 | 138 | 0.455       | 1.0              | 0.0   | 69.4 | -43.9 | 52.4                        | 68.4 | 130          | 0.333 | 1.0              | 0.0   | 0.323 | 1.0   | 0.0              | 64.1  | -51.7 | 45.1 | 68.7                        | 138 | 0.333 | 1.0 | 0.0              |  |  |  |           |           |           |
| 139 | 131   | 140      | 0.316      | 1.0             | 0.0   | 63.8 | -52.2 | 44.7                        | 68.7 | 139 | 0.438       | 1.0              | 0.0   | 68.8 | -44.7 | 51.5                        | 68.3 | 131          | 0.317 | 1.0              | 0.0   | 0.308 | 1.0   | 0.0              | 63.4  | -52.8 | 44.2 | 68.9                        | 140 | 0.317 | 1.0 | 0.0              |  |  |  |           |           |           |
| 140 | 132   | 141      | 0.3        | 1.0             | 0.0   | 63.0 | -53.5 | 43.7                        | 69.1 | 140 | 0.421       | 1.0              | 0.0   | 68.2 | -45.5 | 50.6                        | 68.1 | 132          | 0.3   | 1.0              | 0.0   | 0.294 | 1.0   | 0.0              | 62.7  | -53.9 | 43.3 | 69.2                        | 141 | 0.3   | 1.0 | 0.0              |  |  |  |           |           |           |
| 142 | 133   | 142      | 0.283      | 1.0             | 0.0   | 62.2 | -54.7 | 42.6                        | 69.4 | 142 | 0.404       | 1.0              | 0.0   | 67.6 | -46.2 | 49.7                        | 67.9 | 133          | 0.283 | 1.0              | 0.0   | 0.279 | 1.0   | 0.0              | 62.0  | -55.0 | 42.4 | 69.5                        | 142 | 0.283 | 1.0 | 0.0              |  |  |  |           |           |           |
| 143 | 134   | 143      | 0.266      | 1.0             | 0.0   | 61.4 | -56.0 | 41.5                        | 69.7 | 143 | 0.387       | 1.0              | 0.0   | 67.0 | -47.0 | 48.7                        | 67.7 | 134          | 0.267 | 1.0              | 0.0   | 0.265 | 1.0   | 0.0              | 61.3  | -56.1 | 41.4 | 69.8                        | 143 | 0.267 | 1.0 | 0.0              |  |  |  |           |           |           |
| 144 | 135   | 144      | 0.25       | 1.0             | 0.0   | 60.6 | -57.2 | 40.4                        | 70.1 | 144 | 0.372       | 1.0              | 0.0   | 66.4 | -47.8 | 47.9                        | 67.7 | 135          | 0.25  | 1.0              | 0.0   | 0.25  | 1.0   | 0.0              | 60.6  | -57.1 | 40.5 | 70.1                        | 144 | 0.25  | 1.0 | 0.0              |  |  |  |           |           |           |
| 145 | 136   | 145      | 0.233      | 1.0             | 0.0   | 60.1 | -57.9 | 39.6                        | 70.2 | 145 | 0.359       | 1.0              | 0.0   | 65.8 | -48.8 | 47.2                        | 67.9 | 136          | 0.233 | 1.0              | 0.0   | 0.227 | 1.0   | 0.0              | 60.0  | -58.1 | 39.4 | 70.3                        | 145 | 0.233 | 1.0 | 0.0              |  |  |  |           |           |           |
| 146 | 137   | 147      | 0.216      | 1.0             | 0.0   | 59.6 | -58.6 | 38.9                        | 70.3 | 146 | 0.347       | 1.0              | 0.0   | 65.2 | -49.8 | 46.5                        | 68.2 | 137          | 0.217 | 1.0              | 0.0   | 0.204 | 1.0   | 0.0              | 59.3  | -59.1 | 38.3 | 70.5                        | 147 | 0.217 | 1.0 | 0.0              |  |  |  |           |           |           |
| 147 | 138   | 148      | 0.2        | 1.0             | 0.0   | 59.1 | -59.3 | 38.1                        | 70.5 | 147 | 0.334       | 1.0              | 0.0   | 64.7 | -50.8 | 45.8                        | 68.4 | 138          | 0.2   | 1.0              | 0.0   | 0.181 | 1.0   | 0.0              | 58.6  | -60.0 | 37.2 | 70.7                        | 148 | 0.2   | 1.0 | 0.0              |  |  |  |           |           |           |
| 148 | 139   | 149      | 0.183      | 1.0             | 0.0   | 58.7 | -59.9 | 37.3                        | 70.6 | 148 | 0.322       | 1.0              | 0.0   | 64.1 | -51.7 | 45.1                        | 68.7 | 139          | 0.183 | 1.0              | 0.0   | 0.158 | 1.0   | 0.0              | 58.0  | -60.9 | 36.1 | 70.8                        | 149 | 0.183 | 1.0 | 0.0              |  |  |  |           |           |           |
| 148 | 140   | 150      | 0.166      | 1.0             | 0.0   | 58.2 | -60.6 | 36.4                        | 70.7 | 148 | 0.309       | 1.0              | 0.0   | 63.5 | -52.7 | 44.3                        | 68.9 | 140          | 0.167 | 1.0              | 0.0   | 0.135 | 1.0   | 0.0              | 57.3  | -61.8 | 34.9 | 71.0                        | 150 | 0.167 | 1.0 | 0.0              |  |  |  |           |           |           |
| 149 | 141   | 151      | 0.15       | 1.0             | 0.0   | 57.7 | -61.2 | 35.6                        | 70.9 | 149 | 0.297       | 1.0              | 0.0   | 62.9 | -53.7 | 43.5                        | 69.2 | 141          | 0.15  | 1.0              | 0.0   | 0.106 | 1.0   | 0.0              | 56.6  | -63.0 | 33.9 | 71.6                        | 151 | 0.15  | 1.0 | 0.0              |  |  |  |           |           |           |
| 150 | 142   | 152      | 0.133      | 1.0             | 0.0   | 57.2 | -61.9 | 34.8                        | 71.0 | 150 | 0.284       | 1.0              | 0.0   | 62.3 | -54.6 | 42.7                        | 69.4 | 142          | 0.133 | 1.0              | 0.0   | 0.073 | 1.0   | 0.0              | 55.9  | -64.4 | 33.0 | 72.5                        | 152 | 0.133 | 1.0 | 0.0              |  |  |  |           |           |           |
| 151 | 143   | 154      | 0.116      | 1.0             | 0.0   | 56.8 | -62.5 | 34.1                        | 71.3 | 151 | 0.272       | 1.0              | 0.0   | 61.7 | -55.5 | 41.9                        | 69.7 | 143          | 0.117 | 1.0              | 0.0   | 0.041 | 1.0   | 0.0              | 55.2  | -65.8 | 32.1 | 73.3                        | 154 | 0.117 | 1.0 | 0.0              |  |  |  |           |           |           |
| 151 | 144   | 155      | 0.1        | 1.0             | 0.0   | 56.4 | -63.3 | 33.7                        | 71.7 | 151 | 0.259       | 1.0              | 0.0   | 61.1 | -56.5 | 41.1                        | 69.9 | 144          | 0.1   | 1.0              | 0.0   | 0.008 | 1.0   | 0.0              | 54.5  | -67.2 | 31.1 | 74.2                        | 155 | 0.1   | 1.0 | 0.0              |  |  |  |           |           |           |
| 152 | 145   | 156      | 0.083      | 1.0             | 0.0   | 56.1 | -64.0 | 33.2                        | 72.1 | 152 | 0.245       | 1.0              | 0.0   | 60.5 | -57.4 | 40.2                        | 70.1 | 145          | 0.083 | 1.0              | 0.0   | 0.0   | 1.0   | 0.021            | 54.3  | -67.4 | 29.5 | 73.7                        | 156 | 0.083 | 1.0 | 0.0              |  |  |  |           |           |           |
| 153 | 146   | 157      | 0.066      | 1.0             | 0.0   | 55.7 | -64.7 | 32.8                        | 72.6 | 153 | 0.225       | 1.0              | 0.0   | 59.9 | -58.2 | 39.3                        | 70.3 | 146          | 0.067 | 1.0              | 0.0   | 0.0   | 1.0   | 0.048            | 54.1  | -67.2 | 27.8 | 72.8                        | 157 | 0.067 | 1.0 | 0.0              |  |  |  |           |           |           |
| 153 | 147   | 158      | 0.049      | 1.0             | 0.0   | 55.4 | -65.5 | 32.3                        | 73.0 | 153 | 0.205       | 1.0              | 0.0   | 59.3 | -59.0 | 38.4                        | 70.5 | 147          | 0.05  | 1.0              | 0.0   | 0.0   | 1.0   | 0.075            | 54.0  | -66.9 | 26.1 | 71.9                        | 158 | 0.05  | 1.0 | 0.0              |  |  |  |           |           |           |
| 154 | 148   | 159      | 0.033      | 1.0             | 0.0   | 55.0 | -66.2 | 31.8                        | 73.5 | 154 | 0.186       | 1.0              | 0.0   | 58.8 | -59.8 | 37.4                        | 70.6 | 148          | 0.033 | 1.0              | 0.0   | 0.0   | 1.0   | 0.102            | 53.9  | -66.6 | 24.4 | 71.0                        | 159 | 0.033 | 1.0 | 0.0              |  |  |  |           |           |           |
| 154 | 149   | 161      | 0.016      | 1.0             | 0.0   | 54.7 | -66.9 | 31.3                        | 73.9 | 154 | 0.166       | 1.0              | 0.0   | 58.2 | -60.6 | 36.5                        | 70.8 | 149          | 0.017 | 1.0              | 0.0   | 0.0   | 1.0   | 0.128            | 53.8  | -66.3 | 22.8 | 70.2                        | 161 | 0.017 | 1.0 | 0.0              |  |  |  |           |           |           |
| 155 | 150   | 162      | 0.0        | 1.0             | 0.0   | 54.3 | -67.6 | 30.8                        | 74.3 | 155 | $G_d$ 0.146 | 1.0              | 0.0   | 57.6 | -61.3 | 35.5                        | 70.9 | $150G_s$ 0.0 | 1.0   | 0.0              | 0.0   | 1.0   | 0.147 | 53.8             | -65.9 | 21.1  | 69.3 | $162G_e$ 0.0                | 1.0 | 0.0   |     |                  |  |  |  |           |           |           |
| 156 | 151   | 163      | 0.0        | 1.0             | 0.016 | 54.2 | -67.5 | 29.7                        | 73.8 | 156 | 0.126       | 1.0              | 0.0   | 57.0 | -62.1 | 34.5                        | 71.1 | 151          | 0.0   | 1.0              | 0.017 | 0.0   | 1.0   | 0.162            | 53.8  | -65.5 | 19.9 | 68.6                        | 163 | 0.0   | 1.0 | 0.017            |  |  |  |           |           |           |
| 156 | 152   | 164      | 0.0        | 1.0             | 0.033 | 54.2 | -67.4 | 28.6                        | 73.2 | 156 | 0.099       | 1.0              | 0.0   | 56.4 | -63.3 | 33.7                        | 71.8 | 152          | 0.0   | 1.0              | 0.033 | 0.0   | 1.0   | 0.177            | 53.8  | -65.2 | 18.7 | 67.9                        | 164 | 0.0   | 1.0 | 0.033            |  |  |  |           |           |           |
| 157 | 153   | 164      | 0.0        | 1.0             | 0.05  | 54.1 | -67.2 | 27.6                        | 72.7 | 157 | 0.071       | 1.0              | 0.0   | 55.9 | -64.5 | 32.9                        | 72.5 | 153          | 0.0   | 1.0              | 0.05  | 0.0   | 1.0   | 0.192            | 53.8  | -64.8 | 17.4 | 67.2                        | 164 | 0.0   | 1.0 | 0.05             |  |  |  |           |           |           |
| 158 | 154   | 165      | 0.0        | 1.0             | 0.066 | 54.0 | -67.1 | 26.6                        | 72.1 | 158 | 0.042       | 1.0              | 0.0   | 55.3 | -65.7 | 32.1                        | 73.3 | 154          | 0.0   | 1.0              | 0.067 | 0.0   | 1.0   | 0.207            | 53.8  | -64.4 | 16.2 | 66.5                        | 165 | 0.0   | 1.0 | 0.067            |  |  |  |           |           |           |
| 159 | 155   | 166      | 0.0        | 1.0             | 0.083 | 53.9 | -66.9 | 25.5                        | 71.6 | 159 | 0.014       | 1.0              | 0.0   | 54.7 | -67.0 | 31.3                        | 74.0 | 155          | 0.0   | 1.0              | 0.083 | 0.0   | 1.0   | 0.222            | 53.8  | -63.9 | 15.0 | 65.8                        | 166 | 0.0   | 1.0 | 0.083            |  |  |  |           |           |           |
| 159 | 156   | 167      | 0.0        | 1.0             | 0.1   | 53.9 | -66.7 | 24.5                        | 71.1 | 159 | 0.0         | 1.0              | 0.011 | 54.3 | -67.5 | 30.1                        | 74.0 | 156          | 0.0   | 1.0              | 0.1   | 0.0   | 1.0   | 0.237            | 53.8  | -63.5 | 13.9 | 65.1                        | 167 | 0.0   | 1.0 | 0.1              |  |  |  |           |           |           |
| 160 | 157   | 168      | 0.0        | 1.0             | 0.116 | 53.8 | -66.5 | 23.5                        | 70.5 | 160 | 0.0         | 1.0              | 0.035 | 54.2 | -67.3 | 28.6                        | 73.2 | 157          | 0.0   | 1.0              | 0.117 | 0.0   | 1.0   | 0.251            | 53.8  | -63.0 | 12.7 | 64.4                        | 168 | 0.0   | 1.0 | 0.117            |  |  |  |           |           |           |
| 161 | 158   | 169      | 0.0        | 1.0             | 0.133 | 53.8 | -66.2 | 22.3                        | 69.9 | 161 | 0.0         | 1.0              | 0.058 | 54.1 | -67.1 | 27.2                        | 72.5 | 158          | 0.0   | 1.0              | 0.133 | 0.0   | 1.0   | 0.261            | 53.9  | -62.6 | 11.6 | 63.8                        | 169 | 0.0   | 1.0 | 0.133            |  |  |  |           |           |           |
| 162 | 159   | 170      | 0.0        | 1.0             | 0.15  | 53.8 | -65.8 | 20.8                        | 69.1 | 162 | 0.0         | 1.0              | 0.081 | 54.0 | -66.9 | 25.7                        | 71.7 | 159          | 0.0   | 1.0              | 0.15  | 0.0   | 1.0   | 0.271            | 54.0  | -62.2 | 10.5 | 63.2                        | 170 | 0.0   | 1.0 | 0.15             |  |  |  |           |           |           |
| 163 | 160   | 171      | 0.0        | 1.0             | 0.166 | 53.8 | -65.5 | 19.4                        | 68.3 | 163 |             |                  |       |      |       |                             |      |              |       |                  |       |       |       |                  |       |       |      |                             |     |       |     |                  |  |  |  |           |           |           |

|              |          |                                                                                              |
|--------------|----------|----------------------------------------------------------------------------------------------|
| 3-0131130-L0 | QF990-71 | LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0 |
|--------------|----------|----------------------------------------------------------------------------------------------|

sortie: Laser printer output; separation cmyn6\*, D65, page 12/38

graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
cercle chromatique 48 paliers: tableaux *rgb-LabCh\**

entrée :  $rgb/cmyk \rightarrow rgb_e$   
 sortie : transférer à  $cmyk_o$

Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyk6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s; h_{a,b,d,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;$

Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ $h_{ab,s}$ $h_{ab,e}$ $rgb^*_{dd361M}$ $LAB^*_{dsx361Mi}$ (x=LabCh) |     |     |     |     |       |      |       |      |      | $rgb^*_{ds361Mi}$ $LAB^*_{dsx361Mi}$ (x=LabCh) |     |     |       |      |       |      |      |     |     | $rgb^*_{dd361Mi}$ $rgb^*_{de361Mi}$ $LAB^*_{dex361Mi}$ (x=LabCh) |       |     |     |       |      |       |      |      |     | $rgb^*_{dd361Mi}$ $rgb^*_{dd361Mi}$ $rgb^*_{ds361Mi}$ $rgb^*_{de361Mi}$ |     |       |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------|-----|-----|-----|-----|-------|------|-------|------|------|------------------------------------------------|-----|-----|-------|------|-------|------|------|-----|-----|------------------------------------------------------------------|-------|-----|-----|-------|------|-------|------|------|-----|-------------------------------------------------------------------------|-----|-------|--|--|--|--|--|--|--|
| 168                                                                            | 165 | 175 | 0.0 | 1.0 | 0.25  | 53.7 | -63.1 | 12.8 | 64.4 | 168                                            | 0.0 | 1.0 | 0.192 | 53.8 | -64.7 | 17.4 | 67.1 | 165 | 0.0 | 1.0                                                              | 0.25  | 0.0 | 1.0 | 0.331 | 54.4 | -59.3 | 4.2  | 59.5 | 175 | 0.0                                                                     | 1.0 | 0.25  |  |  |  |  |  |  |  |
| 170                                                                            | 166 | 176 | 0.0 | 1.0 | 0.266 | 53.9 | -62.4 | 10.9 | 63.4 | 170                                            | 0.0 | 1.0 | 0.209 | 53.8 | -64.3 | 16.1 | 66.4 | 166 | 0.0 | 1.0                                                              | 0.267 | 0.0 | 1.0 | 0.341 | 54.5 | -58.7 | 3.3  | 58.9 | 176 | 0.0                                                                     | 1.0 | 0.267 |  |  |  |  |  |  |  |
| 171                                                                            | 167 | 177 | 0.0 | 1.0 | 0.283 | 54.0 | -61.7 | 9.1  | 62.4 | 171                                            | 0.0 | 1.0 | 0.225 | 53.8 | -63.8 | 14.8 | 65.6 | 167 | 0.0 | 1.0                                                              | 0.283 | 0.0 | 1.0 | 0.351 | 54.6 | -58.2 | 2.3  | 58.3 | 177 | 0.0                                                                     | 1.0 | 0.283 |  |  |  |  |  |  |  |
| 173                                                                            | 168 | 178 | 0.0 | 1.0 | 0.3   | 54.1 | -60.9 | 7.3  | 61.3 | 173                                            | 0.0 | 1.0 | 0.242 | 53.8 | -63.3 | 13.5 | 64.8 | 168 | 0.0 | 1.0                                                              | 0.3   | 0.0 | 1.0 | 0.361 | 54.7 | -57.6 | 1.4  | 57.7 | 178 | 0.0                                                                     | 1.0 | 0.3   |  |  |  |  |  |  |  |
| 174                                                                            | 169 | 179 | 0.0 | 1.0 | 0.316 | 54.3 | -60.1 | 5.6  | 60.3 | 174                                            | 0.0 | 1.0 | 0.255 | 53.8 | -62.8 | 12.2 | 64.1 | 169 | 0.0 | 1.0                                                              | 0.317 | 0.0 | 1.0 | 0.371 | 54.7 | -57.0 | 0.4  | 57.1 | 179 | 0.0                                                                     | 1.0 | 0.317 |  |  |  |  |  |  |  |
| 176                                                                            | 170 | 180 | 0.0 | 1.0 | 0.333 | 54.4 | -59.2 | 3.9  | 59.3 | 176                                            | 0.0 | 1.0 | 0.266 | 53.9 | -62.4 | 11.0 | 63.5 | 170 | 0.0 | 1.0                                                              | 0.333 | 0.0 | 1.0 | 0.382 | 54.8 | -56.5 | -0.4 | 56.6 | 180 | 0.0                                                                     | 1.0 | 0.333 |  |  |  |  |  |  |  |
| 177                                                                            | 171 | 181 | 0.0 | 1.0 | 0.35  | 54.5 | -58.2 | 2.3  | 58.3 | 177                                            | 0.0 | 1.0 | 0.277 | 54.0 | -61.9 | 9.8  | 62.8 | 171 | 0.0 | 1.0                                                              | 0.35  | 0.0 | 1.0 | 0.393 | 54.8 | -56.0 | -1.3 | 56.2 | 181 | 0.0                                                                     | 1.0 | 0.35  |  |  |  |  |  |  |  |
| 179                                                                            | 172 | 182 | 0.0 | 1.0 | 0.366 | 54.7 | -57.3 | 0.8  | 57.3 | 179                                            | 0.0 | 1.0 | 0.288 | 54.1 | -61.4 | 8.6  | 62.1 | 172 | 0.0 | 1.0                                                              | 0.367 | 0.0 | 1.0 | 0.405 | 54.8 | -55.6 | -2.1 | 55.7 | 182 | 0.0                                                                     | 1.0 | 0.367 |  |  |  |  |  |  |  |
| 180                                                                            | 173 | 183 | 0.0 | 1.0 | 0.383 | 54.7 | -56.5 | -0.6 | 56.5 | 180                                            | 0.0 | 1.0 | 0.299 | 54.2 | -60.9 | 7.5  | 61.5 | 173 | 0.0 | 1.0                                                              | 0.383 | 0.0 | 1.0 | 0.416 | 54.9 | -55.1 | -3.0 | 55.3 | 183 | 0.0                                                                     | 1.0 | 0.383 |  |  |  |  |  |  |  |
| 181                                                                            | 174 | 184 | 0.0 | 1.0 | 0.4   | 54.8 | -55.8 | -1.8 | 55.9 | 181                                            | 0.0 | 1.0 | 0.31  | 54.3 | -60.4 | 6.4  | 60.8 | 174 | 0.0 | 1.0                                                              | 0.4   | 0.0 | 1.0 | 0.428 | 54.9 | -54.6 | -3.8 | 54.9 | 184 | 0.0                                                                     | 1.0 | 0.4   |  |  |  |  |  |  |  |
| 183                                                                            | 175 | 185 | 0.0 | 1.0 | 0.416 | 54.8 | -55.2 | -3.1 | 55.2 | 183                                            | 0.0 | 1.0 | 0.321 | 54.3 | -59.8 | 5.2  | 60.1 | 175 | 0.0 | 1.0                                                              | 0.417 | 0.0 | 1.0 | 0.439 | 54.9 | -54.1 | -4.7 | 54.5 | 185 | 0.0                                                                     | 1.0 | 0.417 |  |  |  |  |  |  |  |
| 184                                                                            | 176 | 185 | 0.0 | 1.0 | 0.433 | 54.8 | -54.5 | -4.3 | 54.6 | 184                                            | 0.0 | 1.0 | 0.332 | 54.4 | -59.2 | 4.1  | 59.5 | 176 | 0.0 | 1.0                                                              | 0.433 | 0.0 | 1.0 | 0.451 | 54.9 | -53.6 | -5.5 | 54.0 | 185 | 0.0                                                                     | 1.0 | 0.433 |  |  |  |  |  |  |  |
| 185                                                                            | 177 | 186 | 0.0 | 1.0 | 0.45  | 54.9 | -53.7 | -5.5 | 54.0 | 185                                            | 0.0 | 1.0 | 0.343 | 54.5 | -58.6 | 3.1  | 58.8 | 177 | 0.0 | 1.0                                                              | 0.45  | 0.0 | 1.0 | 0.463 | 55.0 |       |      |      |     |                                                                         |     |       |  |  |  |  |  |  |  |

|              |          |                                                                                              |
|--------------|----------|----------------------------------------------------------------------------------------------|
| 3-0131230-L0 | QF990-71 | LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0 |
|--------------|----------|----------------------------------------------------------------------------------------------|

sortie: Laser printer output; separation cmyn6\*, D65, page 13/33

graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
cercle chromatique 48 paliers; tableaux *rgb-LabCh\**

entrée :  $rgb/cmyk \rightarrow rgb_e$   
 sortie : transférer à  $cmyk_e$

Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyk6\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s$ ;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

Six angles de teinte des couleurs périphériques  $RYGCBM_d$ :  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{dxd361Mi}(x=LabCh)$ | $rgb^*_{ds361Mi}$ | $LAB^*_{dsx361Mi}(x=LabCh)$ | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}(x=LabCh)$ | $rgb^*_{dd361Mi}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |       |      |       |       |      |     |       |     |       |     |     |     |       |      |       |       |      |     |       |       |     |     |  |  |  |  |
|----------|------------|------------|------------------|-----------------------------|-------------------|-----------------------------|-------------------|-------------------|-----------------------------|-------------------|--------------|--------------|--------------|-------|------|-------|-------|------|-----|-------|-----|-------|-----|-----|-----|-------|------|-------|-------|------|-----|-------|-------|-----|-----|--|--|--|--|
| 235      | 210        | 216        | 0.0              | 1.0                         | 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 | 0.0 | 1.0 | 0.792 | 55.0 | -38.6 | -29.0 | 48.4 | 216 | $C_e$ | 0.0   | 1.0 | 1.0 |  |  |  |  |
| 235      | 211        | 217        | 0.0              | 0.983                       | 1.0               | 53.1                        | -29.7             | -43.3             | 52.5                        | 235               |              | 0.0          | 1.0          | 0.707 | 55.3 | -41.2 | -24.7 | 48.1 | 211 |       | 0.0 | 0.983 | 1.0 | 0.0 | 1.0 | 0.807 | 54.9 | -38.3 | -29.8 | 48.6 | 217 | 0.0   | 0.983 | 1.0 |     |  |  |  |  |
| 235      | 212        | 218        | 0.0              | 0.966                       | 1.0               | 53.1                        | -29.4             | -43.5             | 52.5                        | 235               |              | 0.0          | 1.0          | 0.719 | 55.3 | -40.7 | -25.4 | 48.1 | 212 |       | 0.0 | 0.967 | 1.0 | 0.0 | 1.0 | 0.822 | 54.8 | -37.9 | -30.5 | 48.8 | 218 | 0.0   | 0.967 | 1.0 |     |  |  |  |  |
| 236      | 213        | 219        | 0.0              | 0.95                        | 1.0               | 53.1                        | -29.2             | -43.7             | 52.6                        | 236               |              | 0.0          | 1.0          | 0.732 | 55.3 | -40.2 | -26.1 | 48.0 | 213 |       | 0.0 | 0.95  | 1.0 | 0.0 | 1.0 | 0.837 | 54.7 | -37.6 | -31.2 | 49.0 | 219 | 0.0   | 0.95  | 1.0 |     |  |  |  |  |
| 236      | 214        | 220        | 0.0              | 0.933                       | 1.0               | 53.1                        | -28.9             | -43.9             | 52.6                        | 236               |              | 0.0          | 1.0          | 0.744 | 55.2 | -39.7 | -26.7 | 48.0 | 214 |       | 0.0 | 0.933 | 1.0 | 0.0 | 1.0 | 0.853 | 54.6 | -37.2 | -31.9 | 49.2 | 220 | 0.0   | 0.933 | 1.0 |     |  |  |  |  |
| 237      | 215        | 221        | 0.0              | 0.916                       | 1.0               | 53.1                        | -28.6             | -44.2             | 52.6                        | 237               |              | 0.0          | 1.0          | 0.759 | 55.2 | -39.3 | -27.5 | 48.1 | 215 |       | 0.0 | 0.917 | 1.0 | 0.0 | 1.0 | 0.868 | 54.5 | -36.9 | -32.6 | 49.4 | 221 | 0.0   | 0.917 | 1.0 |     |  |  |  |  |
| 237      | 216        | 222        | 0.0              | 0.9                         | 1.0               | 53.1                        | -28.3             | -44.4             | 52.7                        | 237               |              | 0.0          | 1.0          | 0.775 | 55.1 | -38.9 | -28.3 | 48.3 | 216 |       | 0.0 | 0.9   | 1.0 | 0.0 | 1.0 | 0.88  | 54.4 | -36.5 | -33.4 | 49.6 | 222 | 0.0   | 0.9   | 1.0 |     |  |  |  |  |
| 237      | 217        | 223        | 0.0              | 0.883                       | 1.0               | 53.1                        | -28.1             | -44.6             | 52.7                        | 237               |              | 0.0          | 1.0          | 0.792 | 55.0 | -38.6 | -29.1 | 48.5 | 217 |       | 0.0 | 0.883 | 1.0 | 0.0 | 1.0 | 0.888 | 54.3 | -36.1 | -34.1 | 49.8 | 223 | 0.0   | 0.883 | 1.0 |     |  |  |  |  |
| 238      | 218        | 224        | 0.0              | 0.866                       | 1.0               | 53.0                        | -27.8             | -44.9             | 52.8                        | 238               |              | 0.0          | 1.0          | 0.809 | 54.9 | -38.2 | -29.9 | 48.7 | 218 |       | 0.0 | 0.867 | 1.0 | 0.0 | 1.0 | 0.897 | 54.2 | -35.7 | -34.8 | 50.0 | 224 | 0.0   | 0.867 | 1.0 |     |  |  |  |  |
| 238      | 219        | 225        | 0.0              | 0.85                        | 1.0               | 53.0                        | -27.5             | -45.3             | 53.0                        | 238               |              | 0.0          | 1.0          | 0.825 | 54.8 | -37.9 | -30.6 | 48.9 | 219 |       | 0.0 | 0.85  | 1.0 | 0.0 | 1.0 | 0.906 | 54.1 | -35.3 | -35.5 | 50.2 | 225 | 0.0   | 0.85  | 1.0 |     |  |  |  |  |
| 239      | 220        | 226        | 0.0              | 0.833                       | 1.0               | 53.0                        | -27.3             | -45.6             | 53.2                        | 239               |              | 0.0          | 1.0          | 0.842 | 54.7 | -37.5 | -31.4 | 49.1 | 220 |       | 0.0 | 0.833 | 1.0 | 0.0 | 1.0 | 0.914 | 54.1 | -34.9 | -36.2 | 50.4 | 226 | 0.0   | 0.833 | 1.0 |     |  |  |  |  |
| 239      | 221        | 227        | 0.0              | 0.816                       | 1.0               | 53.0                        | -27.0             | -46.0             | 53.4                        | 239               |              | 0.0          | 1.0          | 0.859 | 54.6 | -37.1 | -32.2 | 49.3 | 221 |       | 0.0 | 0.817 | 1.0 | 0.0 | 1.0 | 0.923 | 54.0 | -34.4 | -36.9 | 50.6 | 227 | 0.0   | 0.817 | 1.0 |     |  |  |  |  |
| 240      | 222        | 227        | 0.0              | 0.8                         | 1.0               | 52.9                        | -26.7             | -46.4             |                             |                   |              |              |              |       |      |       |       |      |     |       |     |       |     |     |     |       |      |       |       |      |     |       |       |     |     |  |  |  |  |

graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
cercle chromatique 48 paliers; tableaux *rgb-LabCh\**

entrée :  $rgb/cmyk \rightarrow rgb_e$   
 sortie : transférer à  $cmyk_e$

sortie: Laser printer output; separation cmyn6\*, D65, page 14/38

TUB enregistrement: 20130201-QF99/QF99L0NA.TXT /.PS TUB matériel: code=rh4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyk6 (CMYK)





Couleur maximale dans le système colorimétrique : Laser printer output; separation cmyk\*, D65 pour l'entrée et sortie; Six angles de teinte à 60 degrés couleurs standard  $RYGCBM_s; h_{a,b,d,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;$

| Six angles de teinte des couleurs périphériques RYGBM <sub>d</sub> : $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six angles de teinte des couleurs élémentaires RYGBM <sub>e</sub> : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$ |            |            |                  |                              |                   |                              |                   |                   |                              |                   |                   |                   |                   |      |      |       |      |     |     |     |       |       |     |       |      |      |       |      |     |     |     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|------------------------------|-------------------|------------------------------|-------------------|-------------------|------------------------------|-------------------|-------------------|-------------------|-------------------|------|------|-------|------|-----|-----|-----|-------|-------|-----|-------|------|------|-------|------|-----|-----|-----|-------|
| $h_{ab,d}$                                                                                                                                                                                                                                          | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{dxd361Mi}$ (x=LabCh) | $rgb^*_{ds361Mi}$ | $LAB^*_{dsx361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{dd361Mi}$ | $rgb^*_{ds361Mi}$ | $rgb^*_{de361Mi}$ |      |      |       |      |     |     |     |       |       |     |       |      |      |       |      |     |     |     |       |
| 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 | 1.0 | 0.0 | 0.75  | 0.848 | 0.0 | 1.0   | 44.9 | 59.1 | -18.2 | 61.9 | 342 | 1.0 | 0.0 | 0.75  |
| 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 | 1.0 | 0.0 | 0.733 | 0.871 | 0.0 | 1.0   | 45.6 | 60.0 | -17.4 | 62.5 | 343 | 1.0 | 0.0 | 0.733 |
| 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 | 1.0 | 0.0 | 0.717 | 0.895 | 0.0 | 1.0   | 46.1 | 61.0 | -16.6 | 63.2 | 344 | 1.0 | 0.0 | 0.717 |
| 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 | 1.0 | 0.0 | 0.7   | 0.918 | 0.0 | 1.0   | 46.5 | 62.0 | -15.7 | 64.0 | 345 | 1.0 | 0.0 | 0.7   |
| 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 | 1.0 | 0.0 | 0.683 | 0.942 | 0.0 | 1.0   | 47.0 | 63.0 | -14.9 | 64.8 | 346 | 1.0 | 0.0 | 0.683 |
| 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 | 1.0 | 0.0 | 0.667 | 0.966 | 0.0 | 1.0   | 47.5 | 64.0 | -14.0 | 65.5 | 347 | 1.0 | 0.0 | 0.667 |
| 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 | 1.0 | 0.0 | 0.65  | 0.989 | 0.0 | 1.0   | 48.0 | 65.0 | -13.1 | 66.3 | 348 | 1.0 | 0.0 | 0.65  |
| 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 | 1.0 | 0.0 | 0.633 | 1.0   | 0.0 | 0.964 | 48.6 | 65.6 | -12.1 | 66.8 | 349 | 1.0 | 0.0 | 0.633 |
| 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 | 1.0 | 0.0 | 0.617 | 1.0   | 0.0 | 0.899 | 49.3 | 66.0 | -11.1 | 67.0 | 350 | 1.0 | 0.0 | 0.617 |
| 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 | 1.0 | 0.0 | 0.6   | 1.0   | 0.0 | 0.853 | 49.5 | 65.9 | -9.9  | 66.7 | 351 | 1.0 | 0.0 | 0.6   |
| 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 | 1.0 | 0.0 | 0.583 | 1.0   | 0.0 | 0.819 | 49.4 | 65.5 | -8.7  | 66.1 | 352 | 1.0 | 0.0 | 0.583 |
| 365                                                                                                                                                                                                                                                 | 356        | 353        | 1.0              | 0.0                          | 0.566             | 47.8                         | 60.6              | 6.0               | 60.9                         | 365               | 1.0               | 0.0               | 0.721             | 49.0 | 64.0 | -4.4  | 64.2 | 356 | 1.0 | 0.0 | 0.567 | 1.0   | 0.0 | 0.785 | 49.4 | 65.0 | -7.6  | 65.5 | 353 | 1.0 | 0.0 | 0.567 |
| 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 | 1.0 | 0.0 | 0.55  | 1.0   | 0.0 | 0.75  | 49.3 | 64.6 |       |      |     |     |     |       |

|              |          |                                                                                              |
|--------------|----------|----------------------------------------------------------------------------------------------|
| 3-0131630-L0 | QF990-71 | LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0 |
|--------------|----------|----------------------------------------------------------------------------------------------|

sortie: Laser printer output; separation cmyn6\*, D65, page 17/38

graphique TUB-QF99; code de teinte:  $H^*_e=G50B_e$   
cercle chromatique 48 paliers; tableaux *rgb-LabCh\**

entrée :  $rgb/cmyk \rightarrow rgb_e$   
 sortie : transférer à  $cmyk_e$









TUB matériel: code=rha4ta

informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmetrik>

entrée : *rgb/cmyk* → *rgbe*  
 sortie : transférer à *cmyk<sub>e</sub>*

graphique TUB-QF99; code de teinte: H\*<sub>p</sub>=G50B<sub>e</sub>graphique TUB-QF99; co-  
nseils et différences  $\Delta E^*$ ,[illegible]

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 22/33  
http://130.149.60.45/~farbmetrik/QF99/QF99L0NA.TXT / PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>e</sub><sup>\*</sup>=G50Be

entrée : *rgb/cmyk* -> *rgbe*  
sortie : transférer à *cmyk<sub>e</sub>*

| $n$ | HIC-Fe        | $rgb^*Fe$ | $lcr^*Fe$ | $h_{\alpha}^*Fe$ | $rgb^*Fe$ | $LabCh^*Fe$ | $LabCh^*Fe$ | $rgb^*Fe$ | $DE^*Fe$ | $h_{\alpha}^*Fe$ | $rgb^*Fe$ | $LabCh^*Fe$ | $LabCh^*Fe$ |
|-----|---------------|-----------|-----------|------------------|-----------|-------------|-------------|-----------|----------|------------------|-----------|-------------|-------------|
| 162 | ROOY 025 025e | 0.25      | 0.0       | 0.125            | 0.25      | 0.0         | 0.065       | 29.7      | 14.0     | 6.6              | 15.5      | 25.4        | 35.0        |
| 163 | ROOY 025 012e | 0.25      | 0.0       | 0.125            | 0.25      | 0.0         | 0.206       | 36.2      | 16.3     | 22.2             | 16.5      | 35.0        | 35.0        |
| 164 | B50R 025 025e | 0.25      | 0.0       | 0.125            | 0.25      | 0.0         | 0.146       | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 165 | B34R 037 037e | 0.25      | 0.0       | 0.375            | 0.187     | 311         | 11.6        | 12.6      | 17.1     | 13.6             | 310.5     | 27.9        | 27.9        |
| 166 | B25R 050 050e | 0.25      | 0.0       | 0.375            | 0.187     | 311         | 11.6        | 12.6      | 17.1     | 13.6             | 310.5     | 27.9        | 27.9        |
| 167 | B19R 062 062e | 0.25      | 0.0       | 0.625            | 0.312     | 293         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 168 | B13R 075 075e | 0.25      | 0.0       | 0.625            | 0.312     | 293         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 169 | B13R 087 087e | 0.25      | 0.0       | 0.75             | 0.375     | 289         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 170 | B11R 100 100e | 0.25      | 0.0       | 1.0              | 0.5       | 284         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 171 | RSOY 025 025e | 0.25      | 0.0       | 0.125            | 0.25      | 0.0         | 0.077       | 1.0       | 34.1     | 12.2             | 58.8      | 47.4        | 285.0       |
| 172 | ROOY 025 012e | 0.25      | 0.0       | 0.125            | 0.25      | 0.0         | 0.124       | 0.157     | 35.8     | 7.3              | 7.7       | 25.4        | 35.0        |
| 173 | B50R 025 012e | 0.25      | 0.0       | 0.125            | 0.187     | 390         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 174 | B25R 037 037e | 0.25      | 0.0       | 0.375            | 0.25      | 300         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 175 | B15R 050 037e | 0.25      | 0.0       | 0.375            | 0.312     | 289         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 176 | B11R 062 050e | 0.25      | 0.0       | 0.625            | 0.375     | 284         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 177 | B09R 075 062e | 0.25      | 0.0       | 0.75             | 0.625     | 281         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 178 | B06R 087 075e | 0.25      | 0.0       | 0.875            | 0.75      | 279         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 179 | B06R 100 087e | 0.25      | 0.0       | 1.0              | 0.875     | 278         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 180 | Y00G 025 012e | 0.25      | 0.0       | 0.125            | 0.187     | 90          | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 181 | Y00G 025 012e | 0.25      | 0.0       | 0.125            | 0.187     | 90          | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 182 | NW 025e       | 0.25      | 0.0       | 0.125            | 0.187     | 90          | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 183 | B00R 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 184 | B00R 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 270         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 185 | B00R 075 060e | 0.25      | 0.0       | 0.75             | 0.5       | 270         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 186 | B00R 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 270         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 187 | B00R 100 062e | 0.25      | 0.0       | 1.0              | 0.875     | 270         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 188 | B00R 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 189 | Y00G 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 190 | Y00G 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 191 | G50B 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 192 | G50B 037 012e | 0.25      | 0.0       | 0.375            | 0.125     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 193 | G75B 050 025e | 0.25      | 0.0       | 0.375            | 0.375     | 240         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 194 | G84B 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 251         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 195 | G88B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 256         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 196 | G88B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 259         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 197 | G92B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 198 | Y00G 050 050e | 0.25      | 0.0       | 0.5              | 0.25      | 120         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 199 | G68B 050 037e | 0.25      | 0.0       | 0.375            | 0.312     | 131         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 200 | G68B 050 025e | 0.25      | 0.0       | 0.375            | 0.312     | 131         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 201 | G50B 050 025e | 0.25      | 0.0       | 0.375            | 0.312     | 131         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 202 | G50B 050 025e | 0.25      | 0.0       | 0.375            | 0.312     | 131         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 203 | G65B 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 243         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 204 | G75B 075 037e | 0.25      | 0.0       | 0.75             | 0.5       | 240         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 205 | G80B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 251         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 206 | G84B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 207 | Y61G 062 062e | 0.25      | 0.0       | 0.625            | 0.625     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 208 | Y76G 062 050e | 0.25      | 0.0       | 0.625            | 0.625     | 312         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 209 | G00B 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 169         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 210 | G00B 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 169         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 211 | G34B 062 037e | 0.25      | 0.0       | 0.625            | 0.375     | 191         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 212 | G61B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 224         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 213 | G61B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 224         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 214 | G69B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 233         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 215 | G75B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 216 | Y68G 075 075e | 0.25      | 0.0       | 0.75             | 0.625     | 331         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 217 | Y81G 075 075e | 0.25      | 0.0       | 0.75             | 0.625     | 331         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 218 | G00B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 150         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 219 | G11B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 164         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 220 | G25B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 180         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 221 | G38B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 196         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 222 | G50B 075 050e | 0.25      | 0.0       | 0.75             | 0.5       | 210         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 223 | G65B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 229         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 224 | G65B 100 075e | 0.25      | 0.0       | 1.0              | 0.875     | 229         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 225 | Y85B 087 075e | 0.25      | 0.0       | 0.875            | 0.75      | 144         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 226 | Y85B 087 075e | 0.25      | 0.0       | 0.875            | 0.75      | 144         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 227 | G00B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 150         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 228 | G00B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 150         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 229 | G19B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 161         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 230 | G30B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 173         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 231 | G40B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 187         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 232 | G50B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 199         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 233 | G50B 087 062e | 0.25      | 0.0       | 0.875            | 0.625     | 210         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 234 | G57B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 235 | Y86G 100 087e | 0.25      | 0.0       | 1.0              | 0.875     | 262         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 236 | Y86G 100 087e | 0.25      | 0.0       | 1.0              | 0.875     | 262         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 237 | G00B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 238 | G25B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 239 | G51B 100 075e | 0.25      | 0.0       | 1.0              | 0.625     | 180         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 240 | G34B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 241 | G42B 100 075e | 0.25      | 0.0       | 1.0              | 0.875     | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |
| 242 | G50B 100 075e | 0.25      | 0.0       | 1.0              | 0.75      | 265         | 0.0         | 0.0       | 0.0      | 0.0              | 0.0       | 0.0         | 0.0         |



voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

<http://130.149.60.45/~farbmatrik/QF99/QF99L0NA.TXT> /PS; sortie de transfert  
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 24/33

graphique TUB-QF99; code de teinte: H<sub>e</sub>\*=G50B<sub>e</sub>,  
pour l'un et différences ΔE\*,  
pour l'autre.

entrée :  $rgb/cmyk -> rgb_e$   
sortie : transférer à  $cmyk_e$

| $n$ | HIC-Fe        | $rgb_{Fe}$ | $icr_{Fe}$ | $h_{\alpha,Fe}$ | $rgb_{Fe}^*$ | $LabCh^{Fe}$ | $LabCh^{Fe}$ | $rgb_{Fe}^*$ | $LabCh^{Fe}$ | $rgb_{Fe}^*$ | $h_{\alpha,Fe}$ | $DE^{Fe}$ | $rgb_{Fe}^*$ | $LabCh^{Fe}$ | $LabCh^{Fe}$ |
|-----|---------------|------------|------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|-----------|--------------|--------------|--------------|
| 324 | R00Y_050_050e | 0.5        | 0.0        | 0.5             | 0.5          | 0.0          | 0.131        | 31.0         | 25.4         | 0.5          | 0.0             | 0.0       | 0.0          | 33.0         | 34.7         |
| 325 | R00Y_050_050e | 0.5        | 0.0        | 0.5             | 0.5          | 0.0          | 0.131        | 31.0         | 25.4         | 0.5          | 0.0             | 0.0       | 0.0          | 33.0         | 34.7         |
| 326 | R26Y_050_050e | 0.5        | 0.125      | 0.5             | 0.25         | 35.8         | 29.5         | 13.3         | 31.0         | 25.4         | 0.5             | 0.0       | 0.125        | 35.0         | 33.1         |
| 327 | R26Y_050_050e | 0.5        | 0.125      | 0.5             | 0.25         | 35.8         | 29.5         | 13.3         | 31.0         | 25.4         | 0.5             | 0.0       | 0.125        | 35.0         | 33.1         |
| 328 | R61R_050_050e | 0.5        | 0.0        | 0.5             | 0.0          | 0.413        | 36.6         | 32.7         | -4.5         | 33.1         | 352.0           | 0.5       | 0.0          | 34.5         | 35.7         |
| 329 | R61R_050_050e | 0.5        | 0.0        | 0.5             | 0.0          | 0.413        | 36.6         | 32.7         | -4.5         | 33.1         | 352.0           | 0.5       | 0.0          | 34.5         | 35.7         |
| 330 | R26Y_050_050e | 0.5        | 0.0        | 0.5             | 0.25         | 34.0         | 29.1         | -9.5         | 30.6         | 341.8        | 0.5             | 0.0       | 0.375        | 34.0         | 32.9         |
| 331 | R26Y_050_050e | 0.5        | 0.0        | 0.5             | 0.25         | 34.0         | 29.1         | -9.5         | 30.6         | 341.8        | 0.5             | 0.0       | 0.375        | 34.0         | 32.9         |
| 332 | R40R_062_062e | 0.5        | 0.0        | 0.625           | 0.625        | 30.5         | 24.2         | -14.2        | 31.8         | 328.6        | 0.5             | 0.0       | 0.625        | 36.0         | 44.3         |
| 333 | R40R_062_062e | 0.5        | 0.0        | 0.625           | 0.625        | 30.5         | 24.2         | -14.2        | 31.8         | 328.6        | 0.5             | 0.0       | 0.625        | 36.0         | 44.3         |
| 334 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 335 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 336 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 337 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 338 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 339 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 340 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 341 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 342 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 343 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 344 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 345 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 346 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 347 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 348 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.8         | 310.5        | 0.5             | 0.0       | 0.75         | 36.1         | 42.9         |
| 349 | R34R_075_075e | 0.5        | 0.0        | 0.75            | 0.75         | 29.9         | 24.6         | -38.7        | 37.          |              |                 |           |              |              |              |

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 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/QF99/QF99LONA.TXT /PS; sortie de transfert  
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S) page 25/33

graphique TUB-QF99; code de teinte: H\*<sub>e</sub>=G50B<sub>e</sub>

entrée : *rgb/cmyk* → *rgbe*  
sortie : transférer à *cmyke*

[illegible]

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/QF99/QF99LONA.TXT /PS; sortie de transfert  
N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S) page 26/33

graphique TUB-QF99; code de teinte: H\*<sub>e</sub>=G50B<sub>e</sub>

entrée : *rgb/cmyk* -> *rgb*<sub>e</sub>  
sortie : transférer à *cmyk*<sub>e</sub>

| $n$ | HIC <sup>Fe</sup> | $rgb^{Fe}$ | $lct^{Fe}$ | $h_{\alpha}^{Fe}$ | $rgb^{Fe}$ | $LubCh^{Fe}$ | $rgb^{Fe}$ | $LubCh^{Fe}$ | $rgb^{Fe}$ | $DE^{Fe}$ | $h_{\alpha}^{Fe}$ | $rgb^{Fe}$ | $LubCh^{Fe}$ | $rgb^{Fe}$ | $DE^{Fe}$ | $h_{\alpha}^{Fe}$ | $rgb^{Fe}$ | $LubCh^{Fe}$ | $rgb^{Fe}$ | $LubCh^{Fe}$ |      |       |       |       |       |
|-----|-------------------|------------|------------|-------------------|------------|--------------|------------|--------------|------------|-----------|-------------------|------------|--------------|------------|-----------|-------------------|------------|--------------|------------|--------------|------|-------|-------|-------|-------|
| 486 | R00Y_075_075e     | 0.75       | 0.0        | 0.75              | 0.75       | 0.0          | 0.197      | 41.6         | 42.0       | 20.0      | 46.5              | 15.4       | 39.7         | 47.0       | 55.5      | 32.0              | 1.0        | 0.0          | 0.263      | 47.5         | 56.0 | 26.7  | 62.1  | 25.4  |       |
| 487 | R35Y_075_075e     | 0.75       | 0.0        | 0.125             | 0.75       | 0.0          | 0.317      | 41.6         | 43.3       | 11.9      | 45.0              | 25.4       | 39.7         | 47.0       | 55.5      | 32.0              | 1.0        | 0.0          | 0.263      | 47.5         | 56.0 | 26.7  | 62.1  | 25.4  |       |
| 488 | R18Y_075_075e     | 0.75       | 0.0        | 0.25              | 0.75       | 0.0          | 0.441      | 41.6         | 45.8       | 3.4       | 45.9              | 43.3       | 39.7         | 47.0       | 55.5      | 32.0              | 1.0        | 0.0          | 0.263      | 47.5         | 56.0 | 26.7  | 62.1  | 25.4  |       |
| 489 | R00Y_075_075e     | 0.75       | 0.0        | 0.375             | 0.75       | 0.0          | 0.62       | 43.0         | 49.1       | -6.8      | 49.6              | 352.0      | 39.3         | 48.8       | 60        | 49.2              | 1.0        | 0.0          | 0.588      | 47.9         | 61.1 | 46    | 61.2  | 43.3  |       |
| 490 | B65R_075_075e     | 0.75       | 0.0        | 0.5               | 0.75       | 0.0          | 0.75       | 41.2         | 47.2       | -11.2     | 48.5              | 346.6      | 39.5         | 55.3       | -4.1      | 53.1              | 355.4      | 0.0          | 0.0        | 0.827        | 49.4 | 65.5  | -9.1  | 66.2  | 43.3  |
| 491 | B57R_075_075e     | 0.75       | 0.0        | 0.625             | 0.75       | 0.0          | 0.838      | 40.0         | 47.2       | -17.0     | 43.8              | 337.1      | 39.5         | 55.3       | -4.1      | 53.1              | 355.4      | 0.0          | 0.0        | 0.827        | 49.4 | 65.5  | -9.1  | 66.2  | 43.3  |
| 492 | B43R_075_075e     | 0.75       | 0.0        | 0.75              | 0.75       | 0.0          | 1.0        | 43.8         | 35.0       | -41.0     | 41.0              | 328.6      | 41.5         | 54.2       | -16.4     | 56.6              | 343.1      | 0.0          | 0.0        | 0.827        | 49.4 | 65.5  | -9.1  | 66.2  | 43.3  |
| 493 | B43R_087_087e     | 0.75       | 0.0        | 0.875             | 0.75       | 0.0          | 0.875      | 34.2         | 35.7       | -28.8     | 45.9              | 321.0      | 41.5         | 54.2       | -16.4     | 56.6              | 343.1      | 0.0          | 0.0        | 0.875        | 41.5 | 54.2  | -33.0 | 52.4  | 32.0  |
| 494 | B38R_100_100e     | 0.75       | 0.0        | 1.0               | 0.5        | 0.347        | 0.0        | 33.5         | 36.5       | -36.1     | 51.4              | 315.3      | 41.5         | 54.2       | -16.4     | 56.6              | 343.1      | 0.0          | 0.0        | 0.347        | 0.0  | 33.5  | -36.1 | 51.4  | 315.3 |
| 495 | R15Y_075_075e     | 0.75       | 0.0        | 0.75              | 0.75       | 0.021        | 0.0        | 42.5         | 35.5       | 52.2      | 35.5              | 37.8       | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.028        | 0.0        | 0.465        | 56.7 | 40.4  | 69.6  | 35.5  | 49.4  |
| 496 | R00Y_075_062e     | 0.75       | 0.0        | 0.125             | 0.75       | 0.025        | 0.289      | 47.6         | 35.0       | 16.7      | 38.8              | 25.4       | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.289      | 47.6         | 35.0 | 16.7  | 38.8  | 25.4  |       |
| 497 | R31Y_075_062e     | 0.75       | 0.0        | 0.25              | 0.75       | 0.025        | 0.489      | 47.6         | 35.0       | 16.7      | 38.8              | 25.4       | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.25       | 47.6         | 35.0 | 16.7  | 38.8  | 25.4  |       |
| 498 | R11Y_075_062e     | 0.75       | 0.0        | 0.375             | 0.75       | 0.025        | 0.687      | 48.1         | 39.1       | 0.0       | 39.1              | 358.8      | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.375      | 48.1         | 39.1 | 0.0   | 39.1  | 358.8 |       |
| 499 | B69R_075_062e     | 0.75       | 0.0        | 0.5               | 0.75       | 0.025        | 0.887      | 48.1         | 41.2       | -6.9      | 41.8              | 350.4      | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.5        | 48.1         | 41.2 | -6.9  | 41.8  | 350.4 |       |
| 500 | B59R_075_062e     | 0.75       | 0.0        | 0.625             | 0.75       | 0.025        | 1.0        | 44.2         | 34.6       | -13.8     | 37.1              | 338.6      | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.625      | 44.2         | 34.6 | -13.8 | 37.1  | 338.6 |       |
| 501 | B50R_075_062e     | 0.75       | 0.0        | 0.75              | 0.75       | 0.025        | 1.0        | 44.2         | 29.2       | -17.8     | 34.2              | 328.6      | 42.5         | 40.9       | 58.8      | 43.9              | 1.0        | 0.0          | 0.75       | 44.2         | 34.6 | -13.8 | 37.1  | 338.6 |       |
| 502 | B42R_0            |            |            |                   |            |              |            |              |            |           |                   |            |              |            |           |                   |            |              |            |              |      |       |       |       |       |

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 27/33  
http://130.149.60.45/~farbmatrik/QF99/QF99L0NA.TXT / PS; sortie de transfert

graphique TUB-QF99; code de teinte: H\*<sub>e</sub>=G50Be

entrée :  $rgb/cmyk -> rgb_e$   
sortie : transférer à  $cmyk_e$

|     | HIC-Fe        | rgb-Fe | icr-Fe | hsa-Fe | rgb-Fe | LabCh-Fe | LabCh-Fe | rgb-Fe | LabCh-Fe | DE-Fe | hsa-Fe | rgb-Fe | LabCh-Fe |
|-----|---------------|--------|--------|--------|--------|----------|----------|--------|----------|-------|--------|--------|----------|
| 567 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.23     | 44.5     | 23.3   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 568 | R36X_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.357    | 44.5     | 50.3   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 569 | R23Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.469    | 44.5     | 55.5   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 570 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.608    | 44.5     | 55.5   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 571 | BYOR_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.716    | 46.2     | 57.2   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 572 | B63K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 46.2     | 57.2   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 573 | B56R_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.786    | 38.8     | 46.4   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 574 | B50K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 38.8     | 46.4   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 575 | B44R_100_100e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 36.6     | 40.0   | 54.3     | 0.875 | 0.0    | 0.875  | 0.0      |
| 576 | R13Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 36.1     | 41.4   | 52.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 577 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.450    | 49.8     | 34.1   | 60.4     | 0.875 | 0.0    | 0.875  | 0.0      |
| 578 | R35Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.322  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 579 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 580 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 581 | B65K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 582 | B53K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 583 | B50K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 584 | B53K_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 585 | R15Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 586 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 587 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 588 | R13Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 589 | B65R_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 590 | B65R_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 591 | B65R_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 592 | B42R_100_107e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 593 | R13Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 594 | R13Y_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.366  | 50.6     | 0.875 | 0.0    | 0.875  | 0.0      |
| 595 | ROXY_087_087e | 0.875  | 0.0    | 0.875  | 0.0    | 0.875    | 0.125    | 0.     |          |       |        |        |          |

voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 28/33  
http://130.149.60.45/~farbmetrik/QF99/QF99L0NA.TXT /PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>e</sub><sup>\*</sup>=G50Be

entrée : *rgb/cmyk* -> *rgb*  
sortie : transférer à *cmyk*

| $n$ | HC-Fe         | $rgb_{-Fe}$ | $irc_{-Fe}$ | $hs_{-Fe}$ | $rgb^{+Fe}$ | $LabCh^{+Fe}$ | $LabCh^{+Fe}$ | $rgb^{+Fe}$ | $LabCh^{+Fe}$ | $DE^{+Fe}$ | $hs_{+Fe}$ | $rgb^{+Fe}$ | $LabCh^{+Fe}$ | $delta E^{+Fe} = 15.8$ |
|-----|---------------|-------------|-------------|------------|-------------|---------------|---------------|-------------|---------------|------------|------------|-------------|---------------|------------------------|
| 648 | R00Y_100_100e | 1.0         | 0.0         | 0.5        | 380         | 26.7          | 56.0          | 25.4        | 47.5          | 37.5       | 34.8       | 68.6        | 57.2          | 62.1                   |
| 649 | R38Y_100_100e | 1.0         | 0.0         | 0.5        | 393         | 26.7          | 56.0          | 25.4        | 47.5          | 37.5       | 34.8       | 68.6        | 57.2          | 62.1                   |
| 650 | R26Y_100_100e | 1.0         | 0.0         | 0.5        | 360         | 10.2          | 59.9          | 9.8         | 0.0           | 0.263      | 47.5       | 56.0        | 26.7          | 18.2                   |
| 651 | R13Y_100_100e | 1.0         | 0.0         | 0.5        | 368         | 1.0           | 0.0           | 0.501       | 47.8          | 59.0       | 10.2       | 59.9        | 9.8           | 0.0                    |
| 652 | R00Y_100_100e | 1.0         | 0.0         | 0.5        | 360         | 1.0           | 0.0           | 0.501       | 47.8          | 59.0       | 10.2       | 59.9        | 9.8           | 0.0                    |
| 653 | R68R_100_100e | 1.0         | 0.0         | 0.5        | 352         | 1.0           | 0.0           | 0.827       | 49.4          | 65.5       | -9.1       | 66.2        | 352.0         | -9.1                   |
| 654 | B61R_100_100e | 1.0         | 0.0         | 0.5        | 344         | 0.825         | 0.0           | 1.0         | 0.0           | 0.964      | 65.5       | -12.2       | 66.7          | 349.4                  |
| 655 | B53R_100_100e | 1.0         | 0.0         | 0.5        | 337         | 0.696         | 0.0           | 1.0         | 0.0           | 0.964      | 65.5       | -12.2       | 66.7          | 349.4                  |
| 656 | B50R_100_100e | 1.0         | 0.0         | 0.5        | 330         | 0.584         | 0.0           | 1.0         | 0.0           | 0.964      | 65.5       | -12.2       | 66.7          | 349.4                  |
| 657 | R11Y_100_100e | 1.0         | 0.0         | 0.5        | 337         | 0.584         | 0.0           | 1.0         | 0.0           | 0.964      | 65.5       | -12.2       | 66.7          | 349.4                  |
| 658 | R00Y_100_087e | 1.0         | 0.125       | 0.875      | 0.562       | 390           | 0.012         | 0.0         | 0.012         | 47.5       | 57.1       | 38.5        | 46.7          | -28.5                  |
| 659 | R36Y_100_087e | 1.0         | 0.125       | 0.875      | 382         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 660 | R23Y_100_087e | 1.0         | 0.125       | 0.875      | 360         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 661 | R00Y_100_087e | 1.0         | 0.125       | 0.875      | 360         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 662 | B63R_100_087e | 1.0         | 0.125       | 0.875      | 366         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 663 | B63R_100_087e | 1.0         | 0.125       | 0.875      | 366         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 664 | B56R_100_087e | 1.0         | 0.125       | 0.875      | 338         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 665 | B50R_100_087e | 1.0         | 0.125       | 0.875      | 330         | 0.012         | 0.0           | 0.012       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 666 | R23Y_100_100e | 1.0         | 0.05        | 0.4        | 666         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 667 | R13Y_100_087e | 1.0         | 0.05        | 0.4        | 666         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 668 | R00Y_100_075e | 1.0         | 0.25        | 0.75       | 380         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 669 | R36Y_100_075e | 1.0         | 0.25        | 0.75       | 382         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 670 | R18Y_100_075e | 1.0         | 0.25        | 0.75       | 360         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 671 | R00Y_100_075e | 1.0         | 0.25        | 0.75       | 360         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 672 | B63R_100_075e | 1.0         | 0.25        | 0.75       | 349         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 673 | B57R_100_075e | 1.0         | 0.25        | 0.75       | 330         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |
| 674 | B50R_100_075e | 1.0         | 0.25        | 0.75       | 330         | 0.018         | 0.0           | 0.018       | 47.5          | 57.1       | 38.5       | 46.7        | -28.5         | 33.2                   |



voir fichiers similaires: <http://130.149.60.45/~farbmatrik/QF99/QF99.HTM>  
 informations techniques: <http://www.ps.bam.de> ou <http://130.149.60.45/~farbmatrik>

N: aucune linearisation 3D (OL) dans fichier (F) ou PS-startup (S), page 30/33  
http://130.149.60.45/~farbmatrik/QF99/QF99L0NA.TXT / PS; sortie de transfert

graphique TUB-QF99; code de teinte: H<sub>e</sub><sup>\*</sup>=G50B<sub>e</sub>  
couleurs et différences ΔE<sub>uv</sub><sup>\*</sup>,

entrée :  $rgb/cmyk -> rgb_e$   
sortie : transférer à  $cmyk_e$

[illegible]





TUB enregistrement: 20130201-QF99/QF99L0NA.TXT /PS TUB matériel: code=rha4ta  
application pour la mesure des sorties sur imprimante laser, séparation cmyn6 (CMYK)

| n    | HC*Fe         | rgb_Fe | ic*_Fe | hsa_Fe | rgb*Fe | LabCh*Fe | LabCh*Fe | rgb*Fe | DE*Fe | hsa_Fe | rgb*Fe | LabCh*Fe |
|------|---------------|--------|--------|--------|--------|----------|----------|--------|-------|--------|--------|----------|
| 1053 | NW_086e       | 0.866  | 0.866  | 0.866  | 0.866  | 0.866    | 0.866    | 0.866  | 0.1   | 266.5  | 0.1    | 266.5    |
| 1054 | NW_093e       | 0.933  | 0.933  | 0.933  | 0.933  | 0.933    | 0.933    | 0.933  | -0.2  | 278.1  | -0.2   | 278.1    |
| 1055 | NW_100e       | 1.0    | 1.0    | 1.0    | 1.0    | 1.0      | 1.0      | 1.0    | 0.0   | 152.8  | 0.0    | 152.8    |
| 1056 | NW_000e       | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 83.2   | 0.2    | 83.2     |
| 1057 | NW_006e       | 0.066  | 0.066  | 0.066  | 0.066  | 0.066    | 0.066    | 0.066  | 0.1   | 48.9   | 0.1    | 48.9     |
| 1058 | NW_013e       | 0.133  | 0.133  | 0.133  | 0.133  | 0.133    | 0.133    | 0.133  | -0.7  | 268.2  | -0.7   | 268.2    |
| 1059 | NW_020e       | 0.2    | 0.2    | 0.2    | 0.2    | 0.2      | 0.2      | 0.2    | 1.1   | 267.2  | 1.1    | 267.2    |
| 1060 | NW_026e       | 0.266  | 0.266  | 0.266  | 0.266  | 0.266    | 0.266    | 0.266  | -1.1  | 269.1  | -1.1   | 269.1    |
| 1061 | NW_033e       | 0.333  | 0.333  | 0.333  | 0.333  | 0.333    | 0.333    | 0.333  | 0.8   | 273.2  | 0.8    | 273.2    |
| 1062 | NW_040e       | 0.4    | 0.4    | 0.4    | 0.4    | 0.4      | 0.4      | 0.4    | -0.9  | 273.1  | -0.9   | 273.1    |
| 1063 | NW_046e       | 0.466  | 0.466  | 0.466  | 0.466  | 0.466    | 0.466    | 0.466  | 0.9   | 268.9  | 0.9    | 268.9    |
| 1064 | NW_053e       | 0.533  | 0.533  | 0.533  | 0.533  | 0.533    | 0.533    | 0.533  | -0.8  | 268.8  | -0.8   | 268.8    |
| 1065 | NW_060e       | 0.6    | 0.6    | 0.6    | 0.6    | 0.6      | 0.6      | 0.6    | 0.7   | 271.9  | 0.7    | 271.9    |
| 1066 | NW_066e       | 0.666  | 0.666  | 0.666  | 0.666  | 0.666    | 0.666    | 0.666  | -0.4  | 265.0  | -0.4   | 265.0    |
| 1067 | NW_073e       | 0.734  | 0.734  | 0.734  | 0.734  | 0.734    | 0.734    | 0.734  | 0.3   | 279.5  | 0.3    | 279.5    |
| 1068 | NW_080e       | 0.8    | 0.8    | 0.8    | 0.8    | 0.8      | 0.8      | 0.8    | 0.0   | 252.2  | 0.0    | 252.2    |
| 1069 | NW_086e       | 0.866  | 0.866  | 0.866  | 0.866  | 0.866    | 0.866    | 0.866  | 0.2   | 289.2  | 0.2    | 289.2    |
| 1070 | NW_093e       | 0.933  | 0.933  | 0.933  | 0.933  | 0.933    | 0.933    | 0.933  | 0.1   | 331.9  | 0.1    | 331.9    |
| 1071 | NW_100e       | 1.0    | 1.0    | 1.0    | 1.0    | 1.0      | 1.0      | 1.0    | -0.2  | 58.1   | -0.2   | 58.1     |
| 1072 | NW_000e       | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 84.6   | 0.2    | 84.6     |
| 1073 | NW_006e       | 0.066  | 0.066  | 0.066  | 0.066  | 0.066    | 0.066    | 0.066  | -0.2  | 58.1   | -0.2   | 58.1     |
| 1074 | ROXY_100_100e | 1.0    | 1.0    | 1.0    | 1.0    | 1.0      | 1.0      | 1.0    | 0.2   | 58.1   | 0.2    | 58.1     |
| 1075 | G50B_100_100e | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 58.1   | 0.2    | 58.1     |
| 1076 | Y06B_100_100e | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 58.1   | 0.2    | 58.1     |
| 1077 | B00B_100_100e | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 58.1   | 0.2    | 58.1     |
| 1078 | B00B_100_100e | 0.0    | 0.0    | 0.0    | 0.0    | 0.0      | 0.0      | 0.0    | 0.2   | 58.1   | 0.2    | 58.1     |
| 1079 | B50B_100_100e | 1.0    | 1.0    | 1.0    | 1.0    | 1.0      | 1.0      | 1.0    | 0.2   | 58.1   | 0.2    | 58.1     |

delta E\* = 6.3

entrée : rgb/cmyk -> rgbe  
sortie : transférer à cmyke

graphique TUB-QF99; code de teinte: H\*e=G50Be  
couleurs et différences, ΔE\*