

C

M

M

Y

O

O

L

V

L

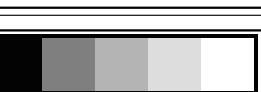
O

O

Y

M

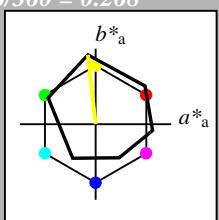
C



### Input: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 96/360 = 0.268$   
 $lab^*tch$  and  $lab^*nch$

D50: hue Y  
LCH\*Ma: 90 92 96  
olv\*Ma: 1.0 1.0 0.0  
triangle lightness  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 1.0  
cmyn4\* 0.0 0.0 0.0 0.0

standard and adapted CIELAB  
LAB\*LAB 95.41 -0.98 4.75  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TChA 99.99 0.01 -

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*tch 1.0 0.0 -  
lab\*nch 0.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nCE 0.0 0.0 -

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TChA 50.0 0.01 -

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*tch 0.5 0.0 -  
lab\*nch 0.5 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nCE 0.5 0.0 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB  
LAB\*LAB 18.02 0.5 -0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TChA 0.01 0.01 -

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*tch 0.0 0.0 -  
lab\*nch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nCE 1.0 0.0 -

$n^* = 1.0$

### ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	$a^*_{ab,a}$	$b^*_{ab,a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.79	92
G <sub>CIE</sub>	52.23	-42.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	271

%Gamut

$u^*_{rel} = 93$

%Regularity

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

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olv3\* 1.0 1.0 1.0 (1.0)

cmyn3\* 0.0 0.0 0.0 (0.0)

olv4\* 1.0 1.0 1.0 1.0

cmyn4\* 0.0 0.0 0.0 0.0

standard and adapted CIELAB

LAB\*LAB 95.41 0.0 0.0

LAB\*LABa 95.41 0.0 0.0

LAB\*TChA 99.99 0.01 -

relative CIELAB lab\*

lab\*lab 1.0 0.0 0.0

lab\*tch 1.0 0.0 -

lab\*nch 0.0 0.0 -

relative Natural Colour (NC)

lab\*lrj 1.0 0.0 0.0

lab\*tce 1.0 0.0 -

lab\*nCE 0.0 0.0 -

standard and adapted CIELAB

LAB\*LAB 95.41 -0.98 4.75

LAB\*LABa 95.41 0.0 0.0

LAB\*TChA 99.99 0.01 -

relative CIELAB lab\*

lab\*lab 0.967 -0.055 0.497

lab\*tch 0.75 0.5 0.268

lab\*nch 0.0 0.5 0.268

relative Natural Colour (NC)

lab\*lrj 0.967 -0.048 0.497

lab\*tce 0.75 0.5 0.266

lab\*nCE 0.0 0.5 j06g

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.5

cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB\*LAB 90.36 -11.15 96.15

LAB\*LABa 90.36 -10.25 91.73

LAB\*TChA 50.0 92.3 96.38

relative CIELAB lab\*

lab\*lab 0.935 -0.11 0.994

lab\*tch 0.5 1.0 0.268

lab\*nch 0.0 1.0 0.268

relative Natural Colour (NC)

lab\*lrj 0.935 -0.097 0.995

lab\*tce 0.5 1.0 0.266

lab\*nCE 0.0 1.0 j06g

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 94.03 -10.34 45.37

LAB\*LABa 94.03 -10.34 45.37

LAB\*TChA 75.0 46.53 102.85

relative CIELAB lab\*

lab\*lab 0.985 -0.116 0.486

lab\*tce 0.75 0.5 0.288

lab\*nCE 0.0 0.5 j15g

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.5

cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB\*LAB 47.72 0.0 0.0

LAB\*LABa 47.72 0.0 0.0

LAB\*TChA 50.0 0.01 -

relative CIELAB lab\*

lab\*lab 0.95 0.0 0.0

lab\*tch 0.5 0.0 -

lab\*nch 0.5 0.0 -

relative Natural Colour (NC)

lab\*lrj 0.95 0.0 0.0

lab\*tce 0.5 0.0 -

lab\*nCE 0.5 0.0 -

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.5

cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB\*LAB 47.72 0.0 0.0

LAB\*LABa 47.72 0.0 0.0

LAB\*TChA 50.0 0.01 -

relative CIELAB lab\*

lab\*lab 0.95 0.0 0.0

lab\*tch 0.5 0.0 -

lab\*nch 0.5 0.0 -

relative Natural Colour (NC)

lab\*lrj 0.95 0.0 0.0

lab\*tce 0.5 0.0 -

lab\*nCE 1.0 0.0 -

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 0.0 0.0 0.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 46.34 -10.34 45.37

LAB\*LABa 46.34 -10.34 45.37

LAB\*TChA 25.01 46.53 102.85

relative CIELAB lab\*

lab\*lab 0.486 -0.11 0.487

lab\*tch 0.25 0.5 0.286

lab\*nch 0.5 0.5 0.286

relative Natural Colour (NC)

lab\*lrj 0.486 -0.116 0.486

lab\*tce 0.25 0.5 0.288

lab\*nCE 0.5 0.5 j15g

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 46.34 -10.34 45.37

LAB\*LABa 46.34 -10.34 45.37

LAB\*TChA 25.01 46.53 102.85

relative CIELAB lab\*

lab\*lab 0.486 -0.11 0.487

lab\*tch 0.25 0.5 0.286

lab\*nch 0.5 0.5 0.286

relative Natural Colour (NC)

lab\*lrj 0.486 -0.116 0.486

lab\*tce 0.25 0.5 0.288

lab\*nCE 0.5 0.5 j15g

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 0.0 0.0 0.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 46.34 -10.34 45.37

LAB\*LABa 46.34 -10.34 45.37

LAB\*TChA 25.01 46.53 102.85

relative CIELAB lab\*

lab\*lab 0.486 -0.11 0.487

lab\*tch 0.25 0.5 0.286

lab\*nch 0.5 0.5 0.286

relative Natural Colour (NC)

lab\*lrj 0.486 -0.116 0.486

lab\*tce 0.25 0.5 0.288

lab\*nCE 0.5 0.5 j15g

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.0 (1.0)

cmyn3\* 0.5 0.5 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 46.34 -10.34 45.37

LAB\*LABa 46.34 -10.34 45.37

LAB\*TChA 25.01 46.53 102.85

**Input: Colorimetric Offset Reflective System ORS18**

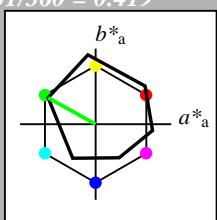
for hue  $h^* = lab^*h = 151/360 = 0.419$   
 $lab^*tch$  and  $lab^*nch$

D50: hue L

LCH\*Ma: 51 72 151

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



**relative Inform. Technology (IT)**

olv3\* 1.0 1.0 1.0 (1.0)  
 cmyn3\* 0.0 0.0 0.0 (0.0)  
 olvi4\* 1.0 1.0 1.0 1.0  
 cmyn4\* 0.0 0.0 0.0 0.0

**standard and adapted CIELAB**

LAB\*LAB 95.41 -0.98 4.75  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TChA 99.99 0.01 -

**relative CIELAB lab\***

lab\*lab 1.0 0.0 0.0  
 lab\*tch 1.0 0.0 -

lab\*nch 0.0 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 1.0 0.0 0.0  
 lab\*tce 1.0 0.0 -

lab\*nCE 0.0 0.0 -

**relative Inform. Technology (IT)**

olv3\* 0.5 0.5 0.5 (1.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)

olvi4\* 1.0 1.0 1.0 0.5

cmyn4\* 0.0 0.0 0.0 0.5

**standard and adapted CIELAB**

LAB\*LAB 56.71 -0.24 2.14  
 LAB\*LABa 56.71 0.0 0.0  
 LAB\*TChA 50.0 0.01 -

**relative CIELAB lab\***

lab\*lab 0.5 0.0 0.0  
 lab\*tch 0.5 0.0 -

lab\*nch 0.5 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 0.5 0.0 0.0  
 lab\*tce 0.5 0.0 -

lab\*nCE 0.5 0.0 -

**relative Inform. Technology (IT)**

olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)

olvi4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

**standard and adapted CIELAB**

LAB\*LAB 18.02 0.5 -0.47  
 LAB\*LABa 18.02 0.0 0.0  
 LAB\*TChA 0.01 0.01 -

**relative CIELAB lab\***

lab\*lab 0.0 0.0 0.0  
 lab\*tch 0.0 0.0 -

lab\*nch 1.0 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 0.0 0.0 0.0  
 lab\*tce 0.0 0.0 -

lab\*nCE 1.0 0.0 -

$n^* = 1,0$

**ORS18; adapted (a) CIELAB data**

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.79	92
G <sub>CIE</sub>	52.23	-42.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	271

**%Gamut**

$u^*_{rel} = 93$

**%Regularity**

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

$g^*_{C,rel} = 59$

**relative Inform. Technology (IT)**

olv3\* 0.5 1.0 0.5 (1.0)  
 cmyn3\* 0.5 0.0 0.5 (0.0)

olvi4\* 0.5 1.0 0.5 1.0

cmyn4\* 0.0 0.0 0.5 0.0

**standard and adapted CIELAB**

LAB\*LAB 73.15 -31.96 20.73

LAB\*LABa 73.15 -31.4 17.48

LAB\*TChA 75.0 35.95 150.91

**relative CIELAB lab\***

lab\*lab 0.712 -0.436 0.243

lab\*tch 0.75 0.5 0.419

lab\*nch 0.0 0.5 0.419

**relative Natural Colour (NC)**

lab\*lrj 0.712 -0.478 0.144

lab\*tce 0.75 0.5 0.453

lab\*nCE 0.0 0.5 j81g

**relative Inform. Technology (IT)**

olv3\* 0.0 0.5 0.0 (1.0)

cmyn3\* 1.0 0.5 1.0 (0.0)

olvi4\* 0.5 1.0 0.5 0.5

cmyn4\* 0.5 0.0 0.5 0.5

**standard and adapted CIELAB**

LAB\*LAB 50.9 -62.95 36.7

LAB\*LABa 50.9 -62.81 34.95

LAB\*TChA 50.0 71.89 150.91

**relative CIELAB lab\***

lab\*lab 0.425 -0.873 0.486

lab\*tch 0.5 1.0 0.419

lab\*nch 0.0 1.0 0.419

**relative Natural Colour (NC)**

lab\*lrj 0.425 -0.956 0.289

lab\*tce 0.5 1.0 0.453

lab\*nCE 0.0 1.0 j81g

**relative Inform. Technology (IT)**

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 1.0 1.0 1.0 (0.0)

olvi4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

**standard and adapted CIELAB**

LAB\*LAB 34.46 -31.22 18.12

LAB\*LABa 34.46 -31.4 17.48

LAB\*TChA 25.01 35.95 150.91

**relative CIELAB lab\***

lab\*lab 0.213 -0.436 0.243

lab\*tch 0.25 0.5 0.419

lab\*nch 0.5 0.5 0.419

**relative Natural Colour (NC)**

lab\*lrj 0.213 -0.478 0.144

lab\*tce 0.25 0.5 0.453

lab\*nCE 0.5 0.5 j81g

**relative Inform. Technology (IT)**

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 1.0 1.0 1.0 (0.0)

olvi4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

**standard and adapted CIELAB**

LAB\*LAB 18.02 0.5 -0.47

LAB\*LABa 18.02 0.0 0.0

LAB\*TChA 0.01 0.01 -

**relative CIELAB lab\***

lab\*lab 0.0 0.0 0.0

lab\*tch 0.0 0.0 -

lab\*nch 1.0 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 0.0 0.0 0.0

lab\*tce 0.0 0.0 -

lab\*nCE 1.0 0.0 -

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,00$

chromaticness  $c^*$

**Output: Colorimetric Television Luminous System TLS00**

for hue  $h^* = lab^*h = 136/360 = 0.378$

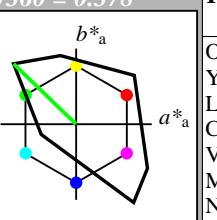
lab\* $tch$  and  $lab^*nch$

D50: hue L

LCH\*Ma: 84 115 136

olv\*Ma: 0.0 1.0 0.0

triangle lightness  $t^*$



**relative Inform. Technology (IT)**

olv3\* 1.0 1.0 1.0 (1.0)  
 cmyn3\* 0.0 0.0 0.0 (0.0)

olvi4\* 1.0 1.0 1.0 1.0

cmyn4\* 0.0 0.0 0.0 0.0

**standard and adapted CIELAB**

LAB\*LAB 95.41 0.0 0.0

LAB\*LABa 95.41 0.0 0.0

LAB\*TChA 99.99 0.01 -

**relative CIELAB lab\***

lab\*lab 1.0 0.0 0.0  
 lab\*tch 1.0 0.0 -

lab\*nch 0.0 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 1.0 0.0 0.0  
 lab\*tce 1.0 0.0 -

lab\*nCE 0.0 0.0 -

**relative Inform. Technology (IT)**

olv3\* 0.5 1.0 0.5 (1.0)

cmyn3\* 0.5 0.0 0.5 (0.0)

olvi4\* 0.5 1.0 0.5 1.0

cmyn4\* 0.0 0.0 0.5 0.0

**standard and adapted CIELAB**

LAB\*LAB 89.51 -41.36 39.94

LAB\*LABa 89.51 -41.36 39.94

LAB\*TChA 75.0 57.51 136.01

**relative CIELAB lab\***

lab\*lab 0.938 -0.359 0.347

lab\*tch 0.75 0.5 0.378

lab\*nch 0.0 0.5 0.378

**relative Natural Colour (NC)**

lab\*lrj 0.938 -0.415 0.278

lab\*tce 0.75 0.5 0.406

lab\*nCE 0.0 0.5 j62g

**relative Inform. Technology (IT)**

olv3\* 0.0 0.5 0.0 (1.0)

cmyn3\* 1.0 0.5 1.0 (0.0)

olvi4\* 1.0 0.5 0.5 0.5

cmyn4\* 0.5 0.0 0.5 0.5

**standard and adapted CIELAB**

LAB\*LAB 41.82 -41.36 39.94

LAB\*LABa 41.82 -41.36 39.94

LAB\*TChA 25.01 57.51 136.01

**relative CIELAB lab\***

lab\*lab 0.438 -0.359 0.347

lab\*tch 0.25 0.5 0.378

lab\*nch 0.5 0.5 0.378

**relative Natural Colour (NC)**

lab\*lrj 0.438 -0.415 0.278

lab\*tce 0.25 0.5 0.406

lab\*nCE 0.5 0.5 j62g

**relative Inform. Technology (IT)**

olv3\* 0.0 0.0 0.0 (1.0)

cmyn3\* 1.0 0.0 1.0 (0.0)

olvi4\* 1.0 0.0 1.0 0.0

cmyn4\* 0.0 0.0 1.0 0.0

**standard and adapted CIELAB**

LAB\*LAB 18.02 0.5 -0.47

LAB\*LABa 18.02 0.0 0.0

LAB\*TChA 0.01 0.01 -

**relative CIELAB lab\***

lab\*lab 0.0 0.0 0.0

lab\*tch 0.0 0.0 -

lab\*nch 1.0 0.0 -

**relative Natural Colour (NC)**

lab\*lrj 0.0 0.0 0.0

lab\*tce 0.0 0.0 -

lab\*nCE 1.0 0.0

**Input: Colorimetric Offset Reflective System ORS18**

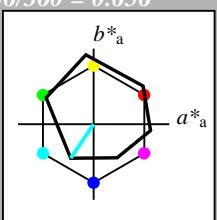
for hue  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*tch$  and  $lab^*nch$

D50: hue C

LCH\*Ma: 59 54 236

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



relative Inform. Technology (IT)

olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 1.0  
cmyn4\* 0.0 0.0 0.0 0.0

standard and adapted CIELAB

LAB\*LAB 95.41 -0.98 4.75  
LAB\*LABa 95.41 0.0 0.0  
LAB\*TChA 99.99 0.01 -

relative CIELAB lab\*

lab\*lab 1.0 0.0 0.0

lab\*tch 1.0 0.0 -

lab\*nch 0.0 0.0 -

relative Natural Colour (NC)

lab\*lrj 1.0 0.0 0.0

lab\*tce 1.0 0.0 -

lab\*ncE 0.0 0.0 -

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 0.5 1.0 1.0 0.5  
cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABa 56.71 0.0 0.0  
LAB\*TChA 50.0 0.01 -

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0

lab\*tch 0.5 0.0 -

lab\*nch 0.5 0.0 -

relative Natural Colour (NC)

lab\*lrj 0.5 0.0 0.0

lab\*tce 0.5 0.0 -

lab\*ncE 0.5 0.0 -

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 0.0  
cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 18.02 0.5 -0.47  
LAB\*LABa 18.02 0.0 0.0  
LAB\*TChA 0.01 0.01 -

relative CIELAB lab\*

lab\*lab 0.0 0.0 0.0

lab\*tch 0.0 0.0 -

lab\*nch 1.0 0.0 -

relative Natural Colour (NC)

lab\*lrj 0.0 0.0 0.0

lab\*tce 0.0 0.0 -

lab\*ncE 1.0 0.0 -

$n^* = 1,0$

**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_{-a}$	$b^*_{-a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.79	92
G <sub>CIE</sub>	52.23	-42.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	271

%Gamut

$u^*_{rel} = 93$

%Regularity

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

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olv3\* 0.5 1.0 1.0 (1.0)  
cmyn3\* 0.5 0.0 0.0 (0.0)

olv4\* 0.5 1.0 1.0 1.0

cmyn4\* 0.0 0.0 0.0 0.0

standard and adapted CIELAB

LAB\*LAB 77.01 -15.8 -18.98

LAB\*LABa 77.01 -15.16 -22.5

LAB\*TChA 75.0 27.14 236.02

relative CIELAB lab\*

lab\*lab 0.762 -0.278 -0.414

lab\*tch 0.75 0.5 0.656

lab\*nch 0.0 0.5 0.656

relative Natural Colour (NC)

lab\*lrj 0.762 -0.247 -0.433

lab\*tce 0.75 0.5 0.667

lab\*ncE 0.0 0.5 g66b

relative Inform. Technology (IT)

olv3\* 0.0 0.5 0.5 (1.0)  
cmyn3\* 1.0 0.5 0.5 (0.0)

olv4\* 0.5 1.0 1.0 0.5

cmyn4\* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB\*LAB 58.62 -30.61 -42.73

LAB\*LABa 58.62 -30.33 -45.01

LAB\*TChA 50.0 54.29 236.02

relative CIELAB lab\*

lab\*lab 0.525 -0.558 -0.828

lab\*tch 0.5 1.0 0.656

lab\*nch 0.0 1.0 0.656

relative Natural Colour (NC)

lab\*lrj 0.525 -0.496 -0.867

lab\*tce 0.5 1.0 0.667

lab\*ncE 0.0 1.0 g66b

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)

olv4\* 1.0 1.0 1.0 0.0

cmyn4\* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB\*LAB 47.72 0.0 0.0

LAB\*LABa 47.72 0.0 0.0

LAB\*TChA 50.0 0.0 0.01

relative CIELAB lab\*

lab\*lab 0.5 0.0 0.0

lab\*tch 0.5 0.0 0.545

lab\*nch 0.5 0.5 0.545

relative Natural Colour (NC)

lab\*lrj 0.5 0.0 0.0

lab\*tce 0.5 0.0 0.578

lab\*ncE 0.0 0.5 g31b

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,50$

$b^* = 0,75$

$n^* = 0,50$

$c^* = 1,00$

$a^* = 0,75$

$b^* = 0,25$

$n^* = 1,00$

$c^* = 0,25$

$a^* = 0,50$

$b^* = 0,50$

$n^* = 0,25$

$c^* = 0,50$

$a^* = 0,25$

$b^* = 0,75$

$n^* = 0,75$

$c^* = 0,75$

$a^* = 0,75$

$b^* = 0,25$

$n^* = 0,50$

$c^* = 0,25$

$a^* = 0,50$

$b^* = 0,50$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

$n^* = 0,00$

blackness  $n^*$

$c^* = 0,00$

$a^* = 0,00$

$b^* = 0,00$

