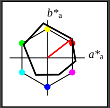
Input: Colorimetric Reflective System ORS18
for hue *h* = lab*h = 38/360 = 0.105*
lab*tch* and *lab*nch

D65: hue O
LCH*Ma: 48 83 38
olv*Ma: 1.0 0.0 0.0

triangle lightness *t**



ORS18; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.37	50.52	82.62	38
Y_{Ma}	90.37	−10.27	91.77	92.34	96
L_{Ma}	50.9	−62.79	34.95	71.87	151
C_{Ma}	58.62	−30.35	−45.01	54.3	236
V_{Ma}	25.71	31.11	−44.42	54.24	305
M_{Ma}	48.13	75.27	−8.35	75.73	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.56	25
J_{CIE}	81.26	−2.17	67.76	67.79	92
G_{CIE}	52.23	−42.26	11.75	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.87	271

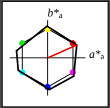
%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59

n^* = 0,00
blackness n^*
0,25 0,50 n^* = 0,50 0,75 1,00
chromaticness c^*
n^* = 1,0

Output: Colorimetric Reflective System NRS11
for hue *h* = lab*h = 24/360 = 0.067*
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 53 84 24
olv*Ma: 1.0 0.0 0.0

triangle lightness *t**



NRS11; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	53.2	77.06	34.32	84.36	24
J_{Ma}	53.2	−1.51	84.38	84.39	91
G_{Ma}	53.2	−82.27	18.98	84.44	167
$G50B_{Ma}$	53.2	−77.72	−32.98	84.44	203
B_{Ma}	53.2	4.37	−84.28	84.41	273
$B50R_{Ma}$	53.2	69.09	−48.41	84.37	325
N_{Ma}	10.99	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.69	27.98	65.01	25
J_{CIE}	81.26	−2.9	71.56	71.62	92
G_{CIE}	52.23	−42.45	13.59	44.59	162
B_{CIE}	30.57	1.35	−46.48	46.51	272

%Gamut
u^*_{rel} = 119
%Regularity
$g^*_{H,rel}$ = 47
$g^*_{C,rel}$ = 100

***relative* Inform. Technology (IT)**
*olvi3** 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 −0.01
*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)**
*olvi3** 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* 53.21 0.04 0.0
*LAB*LABa* 53.21 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)**
*olvi3** 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* 11.01 0.07 0.01
*LAB*LABa* 11.01 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 –

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.5 0.5 (1.0)
*cmyn3** 0.0 0.5 0.5 (0.0)
*olvi4** 1.0 0.5 0.5 1.0
*cmyn4** 0.0 0.5 0.5 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 74.3 38.55 17.16
*LAB*LABa* 74.3 38.52 17.16
*LAB*TCHa* 75.0 42.17 24.01
relative* CIELAB *lab*
*lab*lab* 0.75 0.457 0.203
*lab*tch* 0.75 0.5 0.067
*lab*nch* 0.0 0.5 0.067
***relative* Natural Colour (NC)**
*lab*lrj* 0.75 0.5 −0.009
*lab*tce* 0.75 0.5 0.997
*lab*ncE* 0.0 0.5 b98r

***relative* Inform. Technology (IT)**
*olvi3** 0.5 0.0 0.0 (1.0)
*cmyn3** 0.5 1.0 1.0 (0.0)
*olvi4** 1.0 0.5 0.5 0.5
*cmyn4** 0.0 0.5 0.5 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 32.1 38.58 17.17
*LAB*LABa* 32.1 38.52 17.16
*LAB*TCHa* 25.01 42.17 24.01
relative* CIELAB *lab*
*lab*lab* 0.25 0.457 0.203
*lab*tch* 0.25 0.5 0.067
*lab*nch* 0.5 0.5 0.067
***relative* Natural Colour (NC)**
*lab*lrj* 0.25 0.5 −0.009
*lab*tce* 0.25 0.5 0.997
*lab*ncE* 0.5 0.5 b98r

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.0 0.0 (1.0)
*cmyn3** 0.0 1.0 1.0 (0.0)
*olvi4** 1.0 0.0 0.0 1.0
*cmyn4** 0.0 1.0 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 53.2 77.09 34.32
*LAB*LABa* 53.2 77.04 34.31
*LAB*TCHa* 50.0 84.34 24.01
relative* CIELAB *lab*
*lab*lab* 0.5 0.913 0.407
*lab*tch* 0.5 1.0 0.067
*lab*nch* 0.0 1.0 0.067
***relative* Natural Colour (NC)**
*lab*lrj* 0.5 1.0 −0.019
*lab*tce* 0.5 1.0 0.997
*lab*ncE* 0.0 1.0 b98r

n^* = 0,00
blackness n^*
0,25 0,50 n^* = 0,50 0,75 1,00
chromaticness c^*
n^* = 1,0

TE020−7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left) 3 step scales for constant CIELAB hue 24/360 = 0.067 (right)

See for similar files: http://www.ps.bam.de/TE02/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, CIEXYZ

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application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta, Yr=2.5, XYZ

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