equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 69.15, 27.56, 71.13*

*LAB*LABx: 69.15, 27.56, 71.13*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	70.64	−37.06	66.44	
*LAB*LABa*	70.64	−36.54	63.35	
*LAB*TCHa*	50.0	73.14	119.98	
CIELAB relative:				
*lab*lab*	0.68	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.68	−0.581	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.37	−11.15	96.17	
*LAB*LABa*	90.37	−10.26	91.75	
*LAB*TCHa*	50.0	92.32	96.38	
CIELAB relative:				
*lab*lab*	0.935	−0.11	0.994	
*lab*tch*	0.5	1.0	0.268	
*lab*nch*	0.0	1.0	0.268	
Natural Colour (NC) relative:				
*lab*lrj*	0.935	−0.09	0.996	
*lab*tce*	0.5	1.0	0.265	
*lab*ncE*	0.0	1.0	j05g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.15	27.08	74.12	
*LAB*LABa*	69.15	27.56	71.13	
*LAB*TCHa*	50.0	76.29	68.82	
CIELAB relative:				
*lab*lab*	0.661	0.361	0.932	
*lab*tch*	0.5	1.0	0.191	
*lab*nch*	0.0	1.0	0.191	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	0.524	0.851	
*lab*tce*	0.5	1.0	0.162	
*lab*ncE*	0.0	1.0	r64j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.9	−62.96	36.71	
*LAB*LABa*	50.9	−62.83	34.96	
*LAB*TCHa*	50.0	71.91	150.91	
CIELAB relative:				
*lab*lab*	0.425	−0.873	0.486	
*lab*tch*	0.5	1.0	0.419	
*lab*nch*	0.0	1.0	0.419	
Natural Colour (NC) relative:				
*lab*lrj*	0.425	−0.967	0.251	
*lab*tce*	0.5	1.0	0.46	
*lab*ncE*	0.0	1.0	j83g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	−0.23	2.14	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.94	65.31	52.07	
*LAB*LABa*	47.94	65.39	50.52	
*LAB*TCHa*	50.0	82.63	37.69	
CIELAB relative:				
*lab*lab*	0.387	0.791	0.611	
*lab*tch*	0.5	1.0	0.105	
*lab*nch*	0.0	1.0	0.105	
Natural Colour (NC) relative:				
*lab*lrj*	0.387	0.959	0.283	
*lab*tce*	0.5	1.0	0.046	
*lab*ncE*	0.0	1.0	r18j	

G50B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.62	−30.62	−42.74	
*LAB*LABa*	58.62	−30.34	−45.01	
*LAB*TCHa*	50.0	54.3	236.02	
CIELAB relative:				
*lab*lab*	0.525	−0.558	−0.828	
*lab*tch*	0.5	1.0	0.656	
*lab*nch*	0.0	1.0	0.656	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	−0.489	−0.871	
*lab*tce*	0.5	1.0	0.668	
*lab*ncE*	0.0	1.0	g67b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	25.72	31.45	−44.35	
*LAB*LABa*	25.72	31.1	−44.4	
*LAB*TCHa*	50.0	54.22	305.0	
CIELAB relative:				
*lab*lab*	0.1	0.574	−0.818	
*lab*tch*	0.5	1.0	0.847	
*lab*nch*	0.0	1.0	0.847	
Natural Colour (NC) relative:				
*lab*lrj*	0.1	0.443	−0.895	
*lab*tce*	0.5	1.0	0.823	
*lab*ncE*	0.0	1.0	b29r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.13	75.2	−6.79	
*LAB*LABa*	48.13	75.28	−8.36	
*LAB*TCHa*	50.0	75.74	353.66	
CIELAB relative:				
*lab*lab*	0.389	0.994	−0.109	
*lab*tch*	0.5	1.0	0.982	
*lab*nch*	0.0	1.0	0.982	
Natural Colour (NC) relative:				
*lab*lrj*	0.389	0.905	−0.424	
*lab*tce*	0.5	1.0	0.93	
*lab*ncE*	0.0	1.0	b72r	

All data for the colour R50J’

R50J’

LAB*Fa: 69.15, 27.56, 71.13
LCH*Fa: 69.15, 76.29, 68.82

LAB*Ma: 69.15, 27.56, 71.13
LCH*Ma: 69.15, 76.29, 68.82

LAB*Sa: 69.16, 27.56, 71.13
LCH*Sa: 69.16, 76.29, 68.82

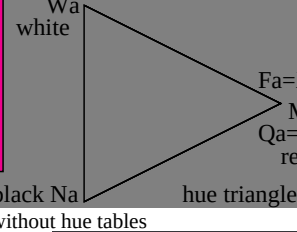
LAB*Qa: 69.15, 27.56, 71.13
LCH*Qa: 69.15, 76.29, 68.82

LAB*Xa: 69.15, 27.56, 71.13
LCH*Xa: 69.15, 76.29, 68.82

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.191
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.191
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.191
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.191
ncw*Xa: 0.0, 1.0, 0.0

B50R’



ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*ORS18* as transfer input; individual colour calculation without hue tables

equivalent colorimetric colour coordinates

System:

TLS00

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 71.58, 28.11, 77.65*

*LAB*LABx: 71.58, 28.11, 77.65*

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.15	−51.72	85.32	
*LAB*LABa*	88.15	−51.72	85.32	
*LAB*TCHa*	50.0	99.78	121.23	
CIELAB relative:				
*lab*lab*	0.924	−0.517	0.855	
*lab*tch*	0.5	1.0	0.337	
*lab*nch*	0.0	1.0	0.337	
Natural Colour (NC) relative:				
*lab*lrj*	0.924	−0.604	0.796	
*lab*tce*	0.5	1.0	0.353	
*lab*ncE*	0.0	1.0	j41g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.66	−20.69	90.75	
*LAB*LABa*	92.66	−20.69	90.75	
*LAB*TCHa*	50.0	93.08	102.85	
CIELAB relative:				
*lab*lab*	0.971	−0.221	0.975	
*lab*tch*	0.5	1.0	0.286	
*lab*nch*	0.0	1.0	0.286	
Natural Colour (NC) relative:				
*lab*lrj*	0.971	−0.234	0.972	
*lab*tce*	0.5	1.0	0.288	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	71.58	28.11	77.65	
*LAB*LABa*	71.58	28.11	77.65	
*LAB*TCHa*	50.0	82.58	70.1	
CIELAB relative:				
*lab*lab*	0.75	0.34	0.94	
*lab*tch*	0.5	1.0	0.195	
*lab*nch*	0.0	1.0	0.195	
Natural Colour (NC) relative:				
*lab*lrj*	0.75	0.499	0.867	
*lab*tce*	0.5	1.0	0.167	
*lab*ncE*	0.0	1.0	r66j	

All data for the colour R50J’

R50J’

LAB*Fa: 71.58, 28.11, 77.65
LCH*Fa: 71.58, 82.58, 70.1

LAB*Ma: 71.58, 28.11, 77.65
LCH*Ma: 71.58, 82.58, 70.1

LAB*Sa: 71.58, 28.11, 77.65
LCH*Sa: 71.58, 82.58, 70.1

LAB*Qa: 71.58, 28.11, 77.65
LCH*Qa: 71.58, 82.58, 70.1

LAB*Xa: 71.58, 28.11, 77.65
LCH*Xa: 71.58, 82.58, 70.1

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.63	−82.75	79.9	
*LAB*LABa*	83.63	−82.75	79.9	
*LAB*TCHa*	50.0	115.04	136.01	
CIELAB relative:				
*lab*lab*	0.877	−0.718	0.695	
*lab*tch*	0.5	1.0	0.378	
*lab*nch*	0.0	1.0	0.378	
Natural Colour (NC) relative:				
*lab*lrj*	0.877	−0.83	0.556	
*lab*tce*	0.5	1.0	0.406	
*lab*ncE*	0.0	1.0	j62g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.71	0.0	0.0	
*LAB*LABa*	47.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.5	76.92	64.55	
*LAB*LABa*	50.5	76.92	64.55	
*LAB*TCHa*	50.0	100.42	40.0	
CIELAB relative:				
*lab*lab*	0.529	0.766	0.643	
*lab*tch*	0.5	1.0	0.111	
*lab*nch*	0.0	1.0	0.111	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.942	0.335	
*lab*tce*	0.5	1.0	0.054	
*lab*ncE*	0.0	1.0	r21j	

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.195
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.195
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.195
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.195
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.195
ncw*Xa: 0.0, 1.0, 0.0

G50B’

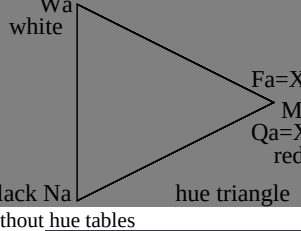
Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	86.88	−46.16	−13.55	
*LAB*LABa*	86.88	−46.16	−13.55	
*LAB*TCHa*	50.0	48.12	196.37	
CIELAB relative:				
*lab*lab*	0.911	−0.958	−0.281	
*lab*tch*	0.5	1.0	0.545	
*lab*nch*	0.0	1.0	0.545	
Natural Colour (NC) relative:				
*lab*lrj*	0.911	−0.881	−0.469	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	30.39	76.06	−103.57	
*LAB*LABa*	30.39	76.06	−103.57	
*LAB*TCHa*	50.0	128.51	306.29	
CIELAB relative:				
*lab*lab*	0.318	0.592	−0.805	
*lab*tch*	0.5	1.0	0.851	
*lab*nch*	0.0	1.0	0.851	
Natural Colour (NC) relative:				
*lab*lrj*	0.318	0.459	−0.887	
*lab*tce*	0.5	1.0	0.826	
*lab*ncE*	0.0	1.0	b30r	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	57.3	94.35	−58.41	
*LAB*LABa*	57.3	94.35	−58.41	
*LAB*TCHa*	50.0	110.97	328.23	
CIELAB relative:				
*lab*lab*	0.601	0.85	−0.525	
*lab*tch*	0.5	1.0	0.912	
*lab*nch*	0.0	1.0	0.912	
Natural Colour (NC) relative:				
*lab*lrj*	0.601	0.703	−0.71	
*lab*tce*	0.5	1.0	0.874	
*lab*ncE*	0.0	1.0	b49r	

B50R’



BAM registration: 20050101-ME44/10L/L44E01NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 2/6, Serie: 1/4, Page: 2
Page: count: 2

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*TLS00* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*TLS00 setcmykcolor*
output: *no change compared to input*

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 66.26, 25.15, 77.47*

*LAB*LABx: 66.26, 25.15, 77.47*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.26	−46.63	69.9	
*LAB*LABa*	69.26	−46.07	67.49	
*LAB*TCHa*	50.0	81.72	124.32	
CIELAB relative:				
*lab*lab*	0.661	−0.563	0.826	
*lab*tch*	0.5	1.0	0.345	
*lab*nch*	0.0	1.0	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	−0.658	0.752	
*lab*tce*	0.5	1.0	0.364	
*lab*ncE*	0.0	1.0	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.32	−16.73	106.88	
*LAB*LABa*	90.32	−16.51	104.33	
*LAB*TCHa*	50.0	105.63	99.0	
CIELAB relative:				
*lab*lab*	0.925	−0.155	0.988	
*lab*tch*	0.5	1.0	0.275	
*lab*nch*	0.0	1.0	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.925	−0.149	0.989	
*lab*tce*	0.5	1.0	0.274	
*lab*ncE*	0.0	1.0	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.26	24.54	79.86	
*LAB*LABa*	66.26	25.15	77.47	
*LAB*TCHa*	50.0	81.45	72.01	
CIELAB relative:				
*lab*lab*	0.623	0.309	0.951	
*lab*tch*	0.5	1.0	0.2	
*lab*nch*	0.0	1.0	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.623	0.459	0.888	
*lab*tce*	0.5	1.0	0.174	
*lab*ncE*	0.0	1.0	r69j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.21	−76.53	32.93	
*LAB*LABa*	48.21	−75.63	30.65	
*LAB*TCHa*	50.0	81.61	157.94	
CIELAB relative:				
*lab*lab*	0.397	−0.926	0.376	
*lab*tch*	0.5	1.0	0.439	
*lab*nch*	0.0	1.0	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.397	−0.994	0.096	
*lab*tce*	0.5	1.0	0.485	
*lab*ncE*	0.0	1.0	j93g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.44	−0.76	2.33	
*LAB*LABa*	56.44	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	0.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	0.0	1.0
*cmyn4**	0.0	1.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.21	65.82	52.84	
*LAB*LABa*	42.21	66.82	50.6	
*LAB*TCHa*	50.0	83.82	37.14	
CIELAB relative:				
*lab*lab*	0.322	0.797	0.604	
*lab*tch*	0.5	1.0	0.103	
*lab*nch*	0.0	1.0	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.322	0.963	0.271	
*lab*tce*	0.5	1.0	0.044	
*lab*ncE*	0.0	1.0	r17j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	53.44	−34.15	−45.18	
*LAB*LABa*	53.44	−33.33	−47.49	
*LAB*TCHa*	50.0	58.03	234.93	
CIELAB relative:				
*lab*lab*	0.462	−0.574	−0.817	
*lab*tch*	0.5	1.0	0.653	
*lab*nch*	0.0	1.0	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.462	−0.503	−0.863	
*lab*tce*	0.5	1.0	0.666	
*lab*ncE*	0.0	1.0	g66b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	34.16	−2.05	−44.38	
*LAB*LABa*	34.16	−0.92	−46.56	
*LAB*TCHa*	50.0	46.58	268.86	
CIELAB relative:				
*lab*lab*	0.221	−0.019	−0.999	
*lab*tch*	0.5	1.0	0.747	
*lab*nch*	0.0	1.0	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.221	−0.04	−0.998	
*lab*tce*	0.5	1.0	0.743	
*lab*ncE*	0.0	1.0	g97b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.71	78.01	0.28	
*LAB*LABa*	42.71	79.0	−1.95	
*LAB*TCHa*	50.0	79.03	358.58	
CIELAB relative:				
*lab*lab*	0.328	1.0	−0.024	
*lab*tch*	0.5	1.0	0.996	
*lab*nch*	0.0	1.0	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.328	0.932	−0.362	
*lab*tce*	0.5	1.0	0.941	
*lab*ncE*	0.0	1.0	b76r	

All data for the colour R50J’

R50J’

LAB*Fa: 66.26, 25.15, 77.47
LCH*Fa: 66.26, 81.45, 72.01

LAB*Ma: 66.26, 25.15, 77.47
LCH*Ma: 66.26, 81.45, 72.01

LAB*Sa: 66.27, 25.15, 77.47
LCH*Sa: 66.27, 81.45, 72.01

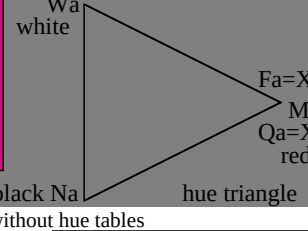
LAB*Qa: 66.26, 25.15, 77.47
LCH*Qa: 66.26, 81.45, 72.01

LAB*Xa: 66.26, 25.15, 77.47
LCH*Xa: 66.26, 81.45, 72.01

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.2
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.2
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.2
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.2
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.2
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E02NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 3/6, Serie: 1/4, Page: 3 Page: count: 3

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 72.72, 25.87, 67.65*

*LAB*LABx: 72.72, 25.87, 67.65*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.37	−49.56	79.62	
*LAB*LABa*	88.37	−49.56	79.62	
*LAB*TCHa*	50.0	93.79	121.9	
CIELAB relative:				
*lab*lab*	0.909	−0.527	0.849	
*lab*tch*	0.5	1.0	0.339	
*lab*nch*	0.0	1.0	0.339	
Natural Colour (NC) relative:				
*lab*lrj*	0.909	−0.616	0.787	
*lab*tce*	0.5	1.0	0.356	
*lab*ncE*	0.0	1.0	j42g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.74	−20.04	85.13	
*LAB*LABa*	92.74	−20.04	85.13	
*LAB*TCHa*	50.0	87.46	103.25	
CIELAB relative:				
*lab*lab*	0.966	−0.228	0.973	
*lab*tch*	0.5	1.0	0.287	
*lab*nch*	0.0	1.0	0.287	
Natural Colour (NC) relative:				
*lab*lrj*	0.966	−0.242	0.97	
*lab*tce*	0.5	1.0	0.289	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	72.72	25.87	67.65	
*LAB*LABa*	72.72	25.87	67.65	
*LAB*TCHa*	50.0	72.43	69.07	
CIELAB relative:				
*lab*lab*	0.707	0.357	0.934	
*lab*tch*	0.5	1.0	0.192	
*lab*nch*	0.0	1.0	0.192	
Natural Colour (NC) relative:				
*lab*lrj*	0.707	0.519	0.855	
*lab*tce*	0.5	1.0	0.163	
*lab*ncE*	0.0	1.0	r65j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.99	−79.07	74.11	
*LAB*LABa*	83.99	−79.07	74.11	
*LAB*TCHa*	50.0	108.38	136.86	
CIELAB relative:				
*lab*lab*	0.852	−0.729	0.684	
*lab*tch*	0.5	1.0	0.38	
*lab*nch*	0.0	1.0	0.38	
Natural Colour (NC) relative:				
*lab*lrj*	0.852	−0.841	0.54	
*lab*tce*	0.5	1.0	0.409	
*lab*ncE*	0.0	1.0	j63g	

(grey)

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	52.7	71.79	50.18	
*LAB*LABa*	52.7	71.79	50.18	
*LAB*TCHa*	50.0	87.59	34.95	
CIELAB relative:				
*lab*lab*	0.448	0.82	0.573	
*lab*tch*	0.5	1.0	0.097	
*lab*nch*	0.0	1.0	0.097	
Natural Colour (NC) relative:				
*lab*lrj*	0.448	0.975	0.221	
*lab*tce*	0.5	1.0	0.035	
*lab*ncE*	0.0	1.0	r14j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	87.13	−44.45	−13.13	
*LAB*LABa*	87.13	−44.45	−13.13	
*LAB*TCHa*	50.0	46.36	196.46	
CIELAB relative:				
*lab*lab*	0.893	−0.958	−0.282	
*lab*tch*	0.5	1.0	0.546	
*lab*nch*	0.0	1.0	0.546	
Natural Colour (NC) relative:				
*lab*lrj*	0.893	−0.881	−0.471	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	31.75	24.65	−37.53	
*LAB*LABa*	31.75	24.65	−37.53	
*LAB*TCHa*	50.0	44.91	303.29	
CIELAB relative:				
*lab*lab*	0.178	0.549	−0.835	
*lab*tch*	0.5	1.0	0.842	
*lab*nch*	0.0	1.0	0.842	
Natural Colour (NC) relative:				
*lab*lrj*	0.178	0.422	−0.906	
*lab*tce*	0.5	1.0	0.819	
*lab*ncE*	0.0	1.0	b27r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.96	89.48	−19.46	
*LAB*LABa*	58.96	89.48	−19.46	
*LAB*TCHa*	50.0	91.57	347.72	
CIELAB relative:				
*lab*lab*	0.529	0.977	−0.212	
*lab*tch*	0.5	1.0	0.966	
*lab*nch*	0.0	1.0	0.966	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.867	−0.497	
*lab*tce*	0.5	1.0	0.917	
*lab*ncE*	0.0	1.0	b66r	

All data for the colour R50J’

R50J’

LAB*Fa: 72.72, 25.87, 67.65
LCH*Fa: 72.72, 72.43, 69.07

LAB*Ma: 72.72, 25.87, 67.65
LCH*Ma: 72.72, 72.43, 69.07

LAB*Sa: 72.72, 25.87, 67.65
LCH*Sa: 72.72, 72.43, 69.07

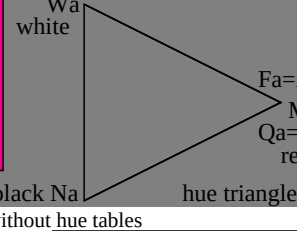
LAB*Qa: 72.72, 25.87, 67.65
LCH*Qa: 72.72, 72.43, 69.07

LAB*Xa: 72.72, 25.87, 67.65
LCH*Xa: 72.72, 72.43, 69.07

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.192
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.192
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.192
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.192
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.192
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System: *SLS00*

J50G'

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G'

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 50.0, 43.3, 75.0*

*LAB*LABx: 50.0, 43.3, 75.0*

G50B'

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G'

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	−43.29	75.0	
*LAB*LABa*	50.0	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J'

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	0.0	100.0	
*LAB*LABa*	66.66	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J'

All data for the colour R50J'

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	43.3	75.0	
*LAB*LABa*	50.0	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

R50J'

LAB*Fa: 50.0, 43.3, 75.0
LCH*Fa: 50.0, 86.6, 60.0

LAB*Ma: 50.0, 43.3, 75.0
LCH*Ma: 50.0, 86.6, 60.0

LAB*Sa: 50.0, 43.3, 75.0
LCH*Sa: 50.0, 86.6, 60.0

LAB*Qa: 50.0, 43.3, 75.0
LCH*Qa: 50.0, 86.6, 60.0

LAB*Xa: 50.0, 43.3, 75.0
LCH*Xa: 50.0, 86.6, 60.0

G'

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	−86.59	50.0	
*LAB*LABa*	33.33	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

(grey)

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.01	0.0	0.0	
*LAB*LABa*	50.01	0.0	0.0	
*LAB*TCHa*	50.0	0.0	−	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	−	
*lab*nch*	0.5	0.0	−	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	−	
*lab*ncE*	0.5	0.0	−	

R'

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	33.33	86.6	50.0	
*LAB*LABa*	33.33	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

R'

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

G50J'

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	−86.59	−49.99	
*LAB*LABa*	66.66	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

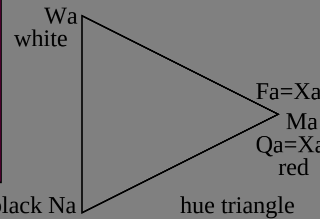
B'

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	0.0	−99.99	
*LAB*LABa*	33.33	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R'

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	86.6	−49.99	
*LAB*LABa*	66.66	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

B50R'



G50J' B' B50R'

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*SLS00* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB' (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*SLS00 setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de
Version 3.0, io=1,1

BAM registration: 20050101-ME44/10L/L44E04NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System: *SRS18*

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*
*LAB*LAB*: 56.71, 43.3, 75.0*
*LAB*LABx: 56.71, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	−43.29	75.0	
*LAB*LABa*	56.71	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	0.0	100.0	
*LAB*LABa*	69.61	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	43.3	75.0	
*LAB*LABa*	56.71	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	−86.59	50.0	
*LAB*LABa*	43.81	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	43.81	86.6	50.0	
*LAB*LABa*	43.81	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	−86.59	−49.99	
*LAB*LABa*	69.61	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	0.0	−99.99	
*LAB*LABa*	43.81	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	86.6	−49.99	
*LAB*LABa*	69.61	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 56.71, 43.3, 75.0
LCH*Fa: 56.71, 86.6, 60.0

LAB*Ma: 56.71, 43.3, 75.0
LCH*Ma: 56.71, 86.6, 60.0

LAB*Sa: 56.71, 43.3, 75.0
LCH*Sa: 56.71, 86.6, 60.0

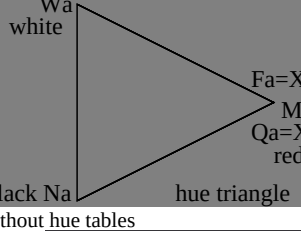
LAB*Qa: 56.71, 43.3, 75.0
LCH*Qa: 56.71, 86.6, 60.0

LAB*Xa: 56.71, 43.3, 75.0
LCH*Xa: 56.71, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 69.15, 76.29, 68.82*

*LAB*LABx: 69.15, 27.56, 71.13*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	70.64	−37.06	66.44	
*LAB*LABa*	70.64	−36.54	63.35	
*LAB*TCHa*	50.0	73.14	119.98	
CIELAB relative:				
*lab*lab*	0.68	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.68	−0.581	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.37	−11.15	96.17	
*LAB*LABa*	90.37	−10.26	91.75	
*LAB*TCHa*	50.0	92.32	96.38	
CIELAB relative:				
*lab*lab*	0.935	−0.11	0.994	
*lab*tch*	0.5	1.0	0.268	
*lab*nch*	0.0	1.0	0.268	
Natural Colour (NC) relative:				
*lab*lrj*	0.935	−0.09	0.996	
*lab*tce*	0.5	1.0	0.265	
*lab*ncE*	0.0	1.0	j05g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.15	27.08	74.12	
*LAB*LABa*	69.15	27.56	71.13	
*LAB*TCHa*	50.0	76.29	68.82	
CIELAB relative:				
*lab*lab*	0.661	0.361	0.932	
*lab*tch*	0.5	1.0	0.191	
*lab*nch*	0.0	1.0	0.191	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	0.524	0.851	
*lab*tce*	0.5	1.0	0.162	
*lab*ncE*	0.0	1.0	r64j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.9	−62.96	36.71	
*LAB*LABa*	50.9	−62.83	34.96	
*LAB*TCHa*	50.0	71.91	150.91	
CIELAB relative:				
*lab*lab*	0.425	−0.873	0.486	
*lab*tch*	0.5	1.0	0.419	
*lab*nch*	0.0	1.0	0.419	
Natural Colour (NC) relative:				
*lab*lrj*	0.425	−0.967	0.251	
*lab*tce*	0.5	1.0	0.46	
*lab*ncE*	0.0	1.0	j83g	

[unnamed]

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	−0.23	2.14	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.94	65.31	52.07	
*LAB*LABa*	47.94	65.39	50.52	
*LAB*TCHa*	50.0	82.63	37.69	
CIELAB relative:				
*lab*lab*	0.387	0.791	0.611	
*lab*tch*	0.5	1.0	0.105	
*lab*nch*	0.0	1.0	0.105	
Natural Colour (NC) relative:				
*lab*lrj*	0.387	0.959	0.283	
*lab*tce*	0.5	1.0	0.046	
*lab*ncE*	0.0	1.0	r18j	

G50B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.62	−30.62	−42.74	
*LAB*LABa*	58.62	−30.34	−45.01	
*LAB*TCHa*	50.0	54.3	236.02	
CIELAB relative:				
*lab*lab*	0.525	−0.558	−0.828	
*lab*tch*	0.5	1.0	0.656	
*lab*nch*	0.0	1.0	0.656	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	−0.489	−0.871	
*lab*tce*	0.5	1.0	0.668	
*lab*ncE*	0.0	1.0	g67b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	25.72	31.45	−44.35	
*LAB*LABa*	25.72	31.1	−44.4	
*LAB*TCHa*	50.0	54.22	305.0	
CIELAB relative:				
*lab*lab*	0.1	0.574	−0.818	
*lab*tch*	0.5	1.0	0.847	
*lab*nch*	0.0	1.0	0.847	
Natural Colour (NC) relative:				
*lab*lrj*	0.1	0.443	−0.895	
*lab*tce*	0.5	1.0	0.823	
*lab*ncE*	0.0	1.0	b29r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.13	75.2	−6.79	
*LAB*LABa*	48.13	75.28	−8.36	
*LAB*TCHa*	50.0	75.74	353.66	
CIELAB relative:				
*lab*lab*	0.389	0.994	−0.109	
*lab*tch*	0.5	1.0	0.982	
*lab*nch*	0.0	1.0	0.982	
Natural Colour (NC) relative:				
*lab*lrj*	0.389	0.905	−0.424	
*lab*tce*	0.5	1.0	0.93	
*lab*ncE*	0.0	1.0	b72r	

All data for the colour R50J’

R50J’

LAB*Fa: 69.15, 27.56, 71.13
LCH*Fa: 69.15, 76.29, 68.82

LAB*Ma: 69.15, 27.56, 71.13
LCH*Ma: 69.15, 76.29, 68.82

LAB*Sa: 69.16, 27.56, 71.13
LCH*Sa: 69.16, 76.29, 68.82

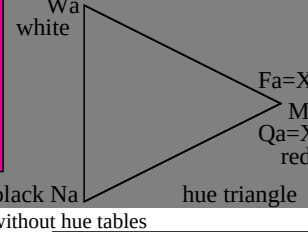
LAB*Qa: 69.15, 27.56, 71.13
LCH*Qa: 69.15, 76.29, 68.82

LAB*Xa: 69.15, 27.56, 71.13
LCH*Xa: 69.15, 76.29, 68.82

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.191
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.191
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.191
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.191
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System:

TLS00

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 71.58, 82.58, 70.1*

*LAB*LABx: 71.58, 28.11, 77.65*

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.15	−51.72	85.32	
*LAB*LABa*	88.15	−51.72	85.32	
*LAB*TCHa*	50.0	99.78	121.23	
CIELAB relative:				
*lab*lab*	0.924	−0.517	0.855	
*lab*tch*	0.5	1.0	0.337	
*lab*nch*	0.0	1.0	0.337	
Natural Colour (NC) relative:				
*lab*lrj*	0.924	−0.604	0.796	
*lab*tce*	0.5	1.0	0.353	
*lab*ncE*	0.0	1.0	j41g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.66	−20.69	90.75	
*LAB*LABa*	92.66	−20.69	90.75	
*LAB*TCHa*	50.0	93.08	102.85	
CIELAB relative:				
*lab*lab*	0.971	−0.221	0.975	
*lab*tch*	0.5	1.0	0.286	
*lab*nch*	0.0	1.0	0.286	
Natural Colour (NC) relative:				
*lab*lrj*	0.971	−0.234	0.972	
*lab*tce*	0.5	1.0	0.288	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	71.58	28.11	77.65	
*LAB*LABa*	71.58	28.11	77.65	
*LAB*TCHa*	50.0	82.58	70.1	
CIELAB relative:				
*lab*lab*	0.75	0.34	0.94	
*lab*tch*	0.5	1.0	0.195	
*lab*nch*	0.0	1.0	0.195	
Natural Colour (NC) relative:				
*lab*lrj*	0.75	0.499	0.867	
*lab*tce*	0.5	1.0	0.167	
*lab*ncE*	0.0	1.0	r66j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.63	−82.75	79.9	
*LAB*LABa*	83.63	−82.75	79.9	
*LAB*TCHa*	50.0	115.04	136.01	
CIELAB relative:				
*lab*lab*	0.877	−0.718	0.695	
*lab*tch*	0.5	1.0	0.378	
*lab*nch*	0.0	1.0	0.378	
Natural Colour (NC) relative:				
*lab*lrj*	0.877	−0.83	0.556	
*lab*tce*	0.5	1.0	0.406	
*lab*ncE*	0.0	1.0	j62g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.71	0.0	0.0	
*LAB*LABa*	47.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.5	76.92	64.55	
*LAB*LABa*	50.5	76.92	64.55	
*LAB*TCHa*	50.0	100.42	40.0	
CIELAB relative:				
*lab*lab*	0.529	0.766	0.643	
*lab*tch*	0.5	1.0	0.111	
*lab*nch*	0.0	1.0	0.111	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.942	0.335	
*lab*tce*	0.5	1.0	0.054	
*lab*ncE*	0.0	1.0	r21j	

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	86.88	−46.16	−13.55	
*LAB*LABa*	86.88	−46.16	−13.55	
*LAB*TCHa*	50.0	48.12	196.37	
CIELAB relative:				
*lab*lab*	0.911	−0.958	−0.281	
*lab*tch*	0.5	1.0	0.545	
*lab*nch*	0.0	1.0	0.545	
Natural Colour (NC) relative:				
*lab*lrj*	0.911	−0.881	−0.469	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	30.39	76.06	−103.57	
*LAB*LABa*	30.39	76.06	−103.57	
*LAB*TCHa*	50.0	128.51	306.29	
CIELAB relative:				
*lab*lab*	0.318	0.592	−0.805	
*lab*tch*	0.5	1.0	0.851	
*lab*nch*	0.0	1.0	0.851	
Natural Colour (NC) relative:				
*lab*lrj*	0.318	0.459	−0.887	
*lab*tce*	0.5	1.0	0.826	
*lab*ncE*	0.0	1.0	b30r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	57.3	94.35	−58.41	
*LAB*LABa*	57.3	94.35	−58.41	
*LAB*TCHa*	50.0	110.97	328.23	
CIELAB relative:				
*lab*lab*	0.601	0.85	−0.525	
*lab*tch*	0.5	1.0	0.912	
*lab*nch*	0.0	1.0	0.912	
Natural Colour (NC) relative:				
*lab*lrj*	0.601	0.703	−0.71	
*lab*tce*	0.5	1.0	0.874	
*lab*ncE*	0.0	1.0	b49r	

All data for the colour R50J’

R50J’

LAB*Fa: 71.58, 28.11, 77.65
LCH*Fa: 71.58, 82.58, 70.1

LAB*Ma: 71.58, 28.11, 77.65
LCH*Ma: 71.58, 82.58, 70.1

LAB*Sa: 71.58, 28.11, 77.65
LCH*Sa: 71.58, 82.58, 70.1

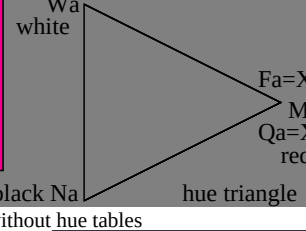
LAB*Qa: 71.58, 28.11, 77.65
LCH*Qa: 71.58, 82.58, 70.1

LAB*Xa: 71.58, 28.11, 77.65
LCH*Xa: 71.58, 82.58, 70.1

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.195
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.195
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.195
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.195
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.195
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E01NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 2/6, Serie: 2/4, Page: 2
Page: count: 8

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*TLS00* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*TLS00 setcmykcolor*
output: *no change compared to input*

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 66.26, 81.45, 72.01*

*LAB*LABx: 66.26, 25.15, 77.47*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.26	−46.63	69.9	
*LAB*LABa*	69.26	−46.07	67.49	
*LAB*TCHa*	50.0	81.72	124.32	
CIELAB relative:				
*lab*lab*	0.661	−0.563	0.826	
*lab*tch*	0.5	1.0	0.345	
*lab*nch*	0.0	1.0	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	−0.658	0.752	
*lab*tce*	0.5	1.0	0.364	
*lab*ncE*	0.0	1.0	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.32	−16.73	106.88	
*LAB*LABa*	90.32	−16.51	104.33	
*LAB*TCHa*	50.0	105.63	99.0	
CIELAB relative:				
*lab*lab*	0.925	−0.155	0.988	
*lab*tch*	0.5	1.0	0.275	
*lab*nch*	0.0	1.0	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.925	−0.149	0.989	
*lab*tce*	0.5	1.0	0.274	
*lab*ncE*	0.0	1.0	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.26	24.54	79.86	
*LAB*LABa*	66.26	25.15	77.47	
*LAB*TCHa*	50.0	81.45	72.01	
CIELAB relative:				
*lab*lab*	0.623	0.309	0.951	
*lab*tch*	0.5	1.0	0.2	
*lab*nch*	0.0	1.0	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.623	0.459	0.888	
*lab*tce*	0.5	1.0	0.174	
*lab*ncE*	0.0	1.0	r69j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.21	−76.53	32.93	
*LAB*LABa*	48.21	−75.63	30.65	
*LAB*TCHa*	50.0	81.61	157.94	
CIELAB relative:				
*lab*lab*	0.397	−0.926	0.376	
*lab*tch*	0.5	1.0	0.439	
*lab*nch*	0.0	1.0	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.397	−0.994	0.096	
*lab*tce*	0.5	1.0	0.485	
*lab*ncE*	0.0	1.0	j93g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.44	−0.76	2.33	
*LAB*LABa*	56.44	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	0.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	0.0	1.0
*cmyn4**	0.0	1.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.21	65.82	52.84	
*LAB*LABa*	42.21	66.82	50.6	
*LAB*TCHa*	50.0	83.82	37.14	
CIELAB relative:				
*lab*lab*	0.322	0.797	0.604	
*lab*tch*	0.5	1.0	0.103	
*lab*nch*	0.0	1.0	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.322	0.963	0.271	
*lab*tce*	0.5	1.0	0.044	
*lab*ncE*	0.0	1.0	r17j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	53.44	−34.15	−45.18	
*LAB*LABa*	53.44	−33.33	−47.49	
*LAB*TCHa*	50.0	58.03	234.93	
CIELAB relative:				
*lab*lab*	0.462	−0.574	−0.817	
*lab*tch*	0.5	1.0	0.653	
*lab*nch*	0.0	1.0	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.462	−0.503	−0.863	
*lab*tce*	0.5	1.0	0.666	
*lab*ncE*	0.0	1.0	g66b	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	34.16	−2.05	−44.38	
*LAB*LABa*	34.16	−0.92	−46.56	
*LAB*TCHa*	50.0	46.58	268.86	
CIELAB relative:				
*lab*lab*	0.221	−0.019	−0.999	
*lab*tch*	0.5	1.0	0.747	
*lab*nch*	0.0	1.0	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.221	−0.04	−0.998	
*lab*tce*	0.5	1.0	0.743	
*lab*ncE*	0.0	1.0	g97b	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.71	78.01	0.28	
*LAB*LABa*	42.71	79.0	−1.95	
*LAB*TCHa*	50.0	79.03	358.58	
CIELAB relative:				
*lab*lab*	0.328	1.0	−0.024	
*lab*tch*	0.5	1.0	0.996	
*lab*nch*	0.0	1.0	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.328	0.932	−0.362	
*lab*tce*	0.5	1.0	0.941	
*lab*ncE*	0.0	1.0	b76r	

G50J’ B’ B50R’

All data for the colour R50J’

R50J’

LAB*Fa: 66.26, 25.15, 77.47
LCH*Fa: 66.26, 81.45, 72.01

LAB*Ma: 66.26, 25.15, 77.47
LCH*Ma: 66.26, 81.45, 72.01

LAB*Sa: 66.27, 25.15, 77.47
LCH*Sa: 66.27, 81.45, 72.01

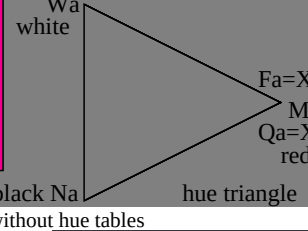
LAB*Qa: 66.26, 25.15, 77.47
LCH*Qa: 66.26, 81.45, 72.01

LAB*Xa: 66.26, 25.15, 77.47
LCH*Xa: 66.26, 81.45, 72.01

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.2
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.2
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.2
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.2
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.2
ncw*Xa: 0.0, 1.0, 0.0

B50R’



See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME44/10L/L44E02NP.PS/.PDF
application for measurement of printer or monitor systems
/ME44/ Form: 3/6, Serie: 2/4, Page: 3 Page: count: 9
BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.37	−49.56	79.62	
*LAB*LABa*	88.37	−49.56	79.62	
*LAB*TCHa*	50.0	93.79	121.9	
CIELAB relative:				
*lab*lab*	0.909	−0.527	0.849	
*lab*tch*	0.5	1.0	0.339	
*lab*nch*	0.0	1.0	0.339	
Natural Colour (NC) relative:				
*lab*lrj*	0.909	−0.616	0.787	
*lab*tce*	0.5	1.0	0.356	
*lab*ncE*	0.0	1.0	j42g	

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.74	−20.04	85.13	
*LAB*LABa*	92.74	−20.04	85.13	
*LAB*TCHa*	50.0	87.46	103.25	
CIELAB relative:				
*lab*lab*	0.966	−0.228	0.973	
*lab*tch*	0.5	1.0	0.287	
*lab*nch*	0.0	1.0	0.287	
Natural Colour (NC) relative:				
*lab*lrj*	0.966	−0.242	0.97	
*lab*tce*	0.5	1.0	0.289	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	72.72	25.87	67.65	
*LAB*LABa*	72.72	25.87	67.65	
*LAB*TCHa*	50.0	72.43	69.07	
CIELAB relative:				
*lab*lab*	0.707	0.357	0.934	
*lab*tch*	0.5	1.0	0.192	
*lab*nch*	0.0	1.0	0.192	
Natural Colour (NC) relative:				
*lab*lrj*	0.707	0.519	0.855	
*lab*tce*	0.5	1.0	0.163	
*lab*ncE*	0.0	1.0	r65j	

All data for the colour R50J’

R50J’

LAB*Fa: 72.72, 25.87, 67.65
LCH*Fa: 72.72, 72.43, 69.07

LAB*Ma: 72.72, 25.87, 67.65
LCH*Ma: 72.72, 72.43, 69.07

LAB*Sa: 72.72, 25.87, 67.65
LCH*Sa: 72.72, 72.43, 69.07

LAB*Qa: 72.72, 25.87, 67.65
LCH*Qa: 72.72, 72.43, 69.07

LAB*Xa: 72.72, 25.87, 67.65
LCH*Xa: 72.72, 72.43, 69.07

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.99	−79.07	74.11	
*LAB*LABa*	83.99	−79.07	74.11	
*LAB*TCHa*	50.0	108.38	136.86	
CIELAB relative:				
*lab*lab*	0.852	−0.729	0.684	
*lab*tch*	0.5	1.0	0.38	
*lab*nch*	0.0	1.0	0.38	
Natural Colour (NC) relative:				
*lab*lrj*	0.852	−0.841	0.54	
*lab*tce*	0.5	1.0	0.409	
*lab*ncE*	0.0	1.0	j63g	

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 72.72, 72.43, 69.07*

*LAB*LABx: 72.72, 25.87, 67.65*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

B’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	52.7	71.79	50.18	
*LAB*LABa*	52.7	71.79	50.18	
*LAB*TCHa*	50.0	87.59	34.95	
CIELAB relative:				
*lab*lab*	0.448	0.82	0.573	
*lab*tch*	0.5	1.0	0.097	
*lab*nch*	0.0	1.0	0.097	
Natural Colour (NC) relative:				
*lab*lrj*	0.448	0.975	0.221	
*lab*tce*	0.5	1.0	0.035	
*lab*ncE*	0.0	1.0	r14j	

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.192
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.192
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.192
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.192
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.192
ncw*Xa: 0.0, 1.0, 0.0

G50J’

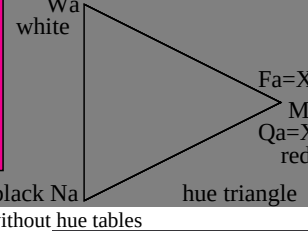
Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	87.13	−44.45	−13.13	
*LAB*LABa*	87.13	−44.45	−13.13	
*LAB*TCHa*	50.0	46.36	196.46	
CIELAB relative:				
*lab*lab*	0.893	−0.958	−0.282	
*lab*tch*	0.5	1.0	0.546	
*lab*nch*	0.0	1.0	0.546	
Natural Colour (NC) relative:				
*lab*lrj*	0.893	−0.881	−0.471	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	31.75	24.65	−37.53	
*LAB*LABa*	31.75	24.65	−37.53	
*LAB*TCHa*	50.0	44.91	303.29	
CIELAB relative:				
*lab*lab*	0.178	0.549	−0.835	
*lab*tch*	0.5	1.0	0.842	
*lab*nch*	0.0	1.0	0.842	
Natural Colour (NC) relative:				
*lab*lrj*	0.178	0.422	−0.906	
*lab*tce*	0.5	1.0	0.819	
*lab*ncE*	0.0	1.0	b27r	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.96	89.48	−19.46	
*LAB*LABa*	58.96	89.48	−19.46	
*LAB*TCHa*	50.0	91.57	347.72	
CIELAB relative:				
*lab*lab*	0.529	0.977	−0.212	
*lab*tch*	0.5	1.0	0.966	
*lab*nch*	0.0	1.0	0.966	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.867	−0.497	
*lab*tce*	0.5	1.0	0.917	
*lab*ncE*	0.0	1.0	b66r	

B50R’



ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*TLS18* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*TLS18 setcmykcolor*
output: *no change compared to input*

BAM registration: 20050101-ME44/10L/L44E03NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 4/6, Serie: 2/4, Page: 4
Page: count: 10

equivalent colorimetric colour coordinates

System: *SLS00*

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*
*LAB*LCH*: 50.0, 86.6, 60.0*
*LAB*LABx: 50.0, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	−43.29	75.0	
*LAB*LABa*	50.0	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	0.0	100.0	
*LAB*LABa*	66.66	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	43.3	75.0	
*LAB*LABa*	50.0	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	−86.59	50.0	
*LAB*LABa*	33.33	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.01	0.0	0.0	
*LAB*LABa*	50.01	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	33.33	86.6	50.0	
*LAB*LABa*	33.33	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	−86.59	−49.99	
*LAB*LABa*	66.66	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	0.0	−99.99	
*LAB*LABa*	33.33	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	86.6	−49.99	
*LAB*LABa*	66.66	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 50.0, 43.3, 75.0
LCH*Fa: 50.0, 86.6, 60.0

LAB*Ma: 50.0, 43.3, 75.0
LCH*Ma: 50.0, 86.6, 60.0

LAB*Sa: 50.0, 43.3, 75.0
LCH*Sa: 50.0, 86.6, 60.0

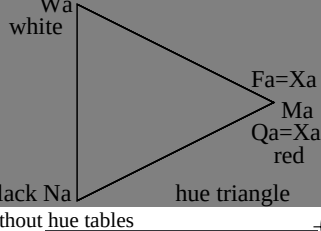
LAB*Qa: 50.0, 43.3, 75.0
LCH*Qa: 50.0, 86.6, 60.0

LAB*Xa: 50.0, 43.3, 75.0
LCH*Xa: 50.0, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E04NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 5/6, Serie: 2/4, Page: 5
Page: count: 11

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

equivalent colorimetric colour coordinates

System:

SRS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*
*LAB*LCH*: 56.71, 86.6, 60.0*
*LAB*LABx: 56.71, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	−43.29	75.0	
*LAB*LABa*	56.71	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	0.0	100.0	
*LAB*LABa*	69.61	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	43.3	75.0	
*LAB*LABa*	56.71	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	−86.59	50.0	
*LAB*LABa*	43.81	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	43.81	86.6	50.0	
*LAB*LABa*	43.81	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	−86.59	−49.99	
*LAB*LABa*	69.61	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	0.0	−99.99	
*LAB*LABa*	43.81	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	86.6	−49.99	
*LAB*LABa*	69.61	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 56.71, 43.3, 75.0
LCH*Fa: 56.71, 86.6, 60.0

LAB*Ma: 56.71, 43.3, 75.0
LCH*Ma: 56.71, 86.6, 60.0

LAB*Sa: 56.71, 43.3, 75.0
LCH*Sa: 56.71, 86.6, 60.0

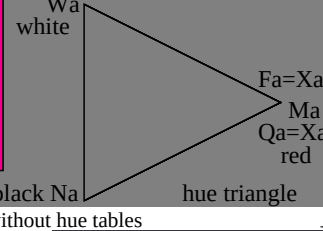
LAB*Qa: 56.71, 43.3, 75.0
LCH*Qa: 56.71, 86.6, 60.0

LAB*Xa: 56.71, 43.3, 75.0
LCH*Xa: 56.71, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*SRS18* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*SRS18 setcmykcolor*
output: *no change compared to input*

BAM registration: 20050101-ME44/10L/L44E05NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 6/6, Serie: 2/4, Page: 6
Page: count: 12

equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.191*
*LAB*LABx: 69.15, 27.56, 71.13*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	70.64	−37.06	66.44	
*LAB*LABa*	70.64	−36.54	63.35	
*LAB*TCHa*	50.0	73.14	119.98	
CIELAB relative:				
*lab*lab*	0.68	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.68	−0.581	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.37	−11.15	96.17	
*LAB*LABa*	90.37	−10.26	91.75	
*LAB*TCHa*	50.0	92.32	96.38	
CIELAB relative:				
*lab*lab*	0.935	−0.11	0.994	
*lab*tch*	0.5	1.0	0.268	
*lab*nch*	0.0	1.0	0.268	
Natural Colour (NC) relative:				
*lab*lrj*	0.935	−0.09	0.996	
*lab*tce*	0.5	1.0	0.265	
*lab*ncE*	0.0	1.0	j05g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.15	27.08	74.12	
*LAB*LABa*	69.15	27.56	71.13	
*LAB*TCHa*	50.0	76.29	68.82	
CIELAB relative:				
*lab*lab*	0.661	0.361	0.932	
*lab*tch*	0.5	1.0	0.191	
*lab*nch*	0.0	1.0	0.191	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	0.524	0.851	
*lab*tce*	0.5	1.0	0.162	
*lab*ncE*	0.0	1.0	r64j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.9	−62.96	36.71	
*LAB*LABa*	50.9	−62.83	34.96	
*LAB*TCHa*	50.0	71.91	150.91	
CIELAB relative:				
*lab*lab*	0.425	−0.873	0.486	
*lab*tch*	0.5	1.0	0.419	
*lab*nch*	0.0	1.0	0.419	
Natural Colour (NC) relative:				
*lab*lrj*	0.425	−0.967	0.251	
*lab*tce*	0.5	1.0	0.46	
*lab*ncE*	0.0	1.0	j83g	

[unlabeled]

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	−0.23	2.14	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.94	65.31	52.07	
*LAB*LABa*	47.94	65.39	50.52	
*LAB*TCHa*	50.0	82.63	37.69	
CIELAB relative:				
*lab*lab*	0.387	0.791	0.611	
*lab*tch*	0.5	1.0	0.105	
*lab*nch*	0.0	1.0	0.105	
Natural Colour (NC) relative:				
*lab*lrj*	0.387	0.959	0.283	
*lab*tce*	0.5	1.0	0.046	
*lab*ncE*	0.0	1.0	r18j	

G50B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.62	−30.62	−42.74	
*LAB*LABa*	58.62	−30.34	−45.01	
*LAB*TCHa*	50.0	54.3	236.02	
CIELAB relative:				
*lab*lab*	0.525	−0.558	−0.828	
*lab*tch*	0.5	1.0	0.656	
*lab*nch*	0.0	1.0	0.656	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	−0.489	−0.871	
*lab*tce*	0.5	1.0	0.668	
*lab*ncE*	0.0	1.0	g67b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	25.72	31.45	−44.35	
*LAB*LABa*	25.72	31.1	−44.4	
*LAB*TCHa*	50.0	54.22	305.0	
CIELAB relative:				
*lab*lab*	0.1	0.574	−0.818	
*lab*tch*	0.5	1.0	0.847	
*lab*nch*	0.0	1.0	0.847	
Natural Colour (NC) relative:				
*lab*lrj*	0.1	0.443	−0.895	
*lab*tce*	0.5	1.0	0.823	
*lab*ncE*	0.0	1.0	b29r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.13	75.2	−6.79	
*LAB*LABa*	48.13	75.28	−8.36	
*LAB*TCHa*	50.0	75.74	353.66	
CIELAB relative:				
*lab*lab*	0.389	0.994	−0.109	
*lab*tch*	0.5	1.0	0.982	
*lab*nch*	0.0	1.0	0.982	
Natural Colour (NC) relative:				
*lab*lrj*	0.389	0.905	−0.424	
*lab*tce*	0.5	1.0	0.93	
*lab*ncE*	0.0	1.0	b72r	

All data for the colour R50J’

R50J’

LAB*Fa: 69.15, 27.56, 71.13
LCH*Fa: 69.15, 76.29, 68.82

LAB*Ma: 69.15, 27.56, 71.13
LCH*Ma: 69.15, 76.29, 68.82

LAB*Sa: 69.16, 27.56, 71.13
LCH*Sa: 69.16, 76.29, 68.82

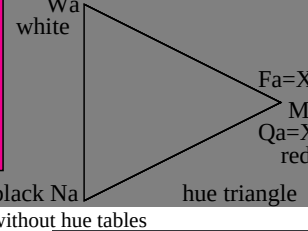
LAB*Qa: 69.15, 27.56, 71.13
LCH*Qa: 69.15, 76.29, 68.82

LAB*Xa: 69.15, 27.56, 71.13
LCH*Xa: 69.15, 76.29, 68.82

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.191
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.191
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.191
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.191
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System:

TLS00

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.195*
*LAB*LABx: 71.58, 28.11, 77.65*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.15	−51.72	85.32	
*LAB*LABa*	88.15	−51.72	85.32	
*LAB*TCHa*	50.0	99.78	121.23	
CIELAB relative:				
*lab*lab*	0.924	−0.517	0.855	
*lab*tch*	0.5	1.0	0.337	
*lab*nch*	0.0	1.0	0.337	
Natural Colour (NC) relative:				
*lab*lrj*	0.924	−0.604	0.796	
*lab*tce*	0.5	1.0	0.353	
*lab*ncE*	0.0	1.0	j41g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.66	−20.69	90.75	
*LAB*LABa*	92.66	−20.69	90.75	
*LAB*TCHa*	50.0	93.08	102.85	
CIELAB relative:				
*lab*lab*	0.971	−0.221	0.975	
*lab*tch*	0.5	1.0	0.286	
*lab*nch*	0.0	1.0	0.286	
Natural Colour (NC) relative:				
*lab*lrj*	0.971	−0.234	0.972	
*lab*tce*	0.5	1.0	0.288	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	71.58	28.11	77.65	
*LAB*LABa*	71.58	28.11	77.65	
*LAB*TCHa*	50.0	82.58	70.1	
CIELAB relative:				
*lab*lab*	0.75	0.34	0.94	
*lab*tch*	0.5	1.0	0.195	
*lab*nch*	0.0	1.0	0.195	
Natural Colour (NC) relative:				
*lab*lrj*	0.75	0.499	0.867	
*lab*tce*	0.5	1.0	0.167	
*lab*ncE*	0.0	1.0	r66j	

All data for the colour R50J’

R50J’

LAB*Fa: 71.58, 28.11, 77.65
LCH*Fa: 71.58, 82.58, 70.1

LAB*Ma: 71.58, 28.11, 77.65
LCH*Ma: 71.58, 82.58, 70.1

LAB*Sa: 71.58, 28.11, 77.65
LCH*Sa: 71.58, 82.58, 70.1

LAB*Qa: 71.58, 28.11, 77.65
LCH*Qa: 71.58, 82.58, 70.1

LAB*Xa: 71.58, 28.11, 77.65
LCH*Xa: 71.58, 82.58, 70.1

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.195
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.195
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.195
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.195
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.195
ncw*Xa: 0.0, 1.0, 0.0

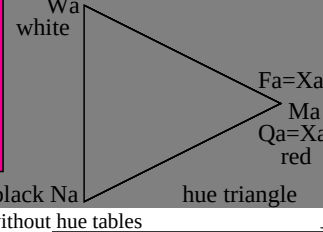
G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.63	−82.75	79.9	
*LAB*LABa*	83.63	−82.75	79.9	
*LAB*TCHa*	50.0	115.04	136.01	
CIELAB relative:				
*lab*lab*	0.877	−0.718	0.695	
*lab*tch*	0.5	1.0	0.378	
*lab*nch*	0.0	1.0	0.378	
Natural Colour (NC) relative:				
*lab*lrj*	0.877	−0.83	0.556	
*lab*tce*	0.5	1.0	0.406	
*lab*ncE*	0.0	1.0	j62g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.71	0.0	0.0	
*LAB*LABa*	47.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	0.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	0.0	1.0
*cmyn4**	0.0	1.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.5	76.92	64.55	
*LAB*LABa*	50.5	76.92	64.55	
*LAB*TCHa*	50.0	100.42	40.0	
CIELAB relative:				
*lab*lab*	0.529	0.766	0.643	
*lab*tch*	0.5	1.0	0.111	
*lab*nch*	0.0	1.0	0.111	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.942	0.335	
*lab*tce*	0.5	1.0	0.054	
*lab*ncE*	0.0	1.0	r21j	

B50R’



Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	86.88	−46.16	−13.55	
*LAB*LABa*	86.88	−46.16	−13.55	
*LAB*TCHa*	50.0	48.12	196.37	
CIELAB relative:				
*lab*lab*	0.911	−0.958	−0.281	
*lab*tch*	0.5	1.0	0.545	
*lab*nch*	0.0	1.0	0.545	
Natural Colour (NC) relative:				
*lab*lrj*	0.911	−0.881	−0.469	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

G50J’

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	30.39	76.06	−103.57	
*LAB*LABa*	30.39	76.06	−103.57	
*LAB*TCHa*	50.0	128.51	306.29	
CIELAB relative:				
*lab*lab*	0.318	0.592	−0.805	
*lab*tch*	0.5	1.0	0.851	
*lab*nch*	0.0	1.0	0.851	
Natural Colour (NC) relative:				
*lab*lrj*	0.318	0.459	−0.887	
*lab*tce*	0.5	1.0	0.826	
*lab*ncE*	0.0	1.0	b30r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	57.3	94.35	−58.41	
*LAB*LABa*	57.3	94.35	−58.41	
*LAB*TCHa*	50.0	110.97	328.23	
CIELAB relative:				
*lab*lab*	0.601	0.85	−0.525	
*lab*tch*	0.5	1.0	0.912	
*lab*nch*	0.0	1.0	0.912	
Natural Colour (NC) relative:				
*lab*lrj*	0.601	0.703	−0.71	
*lab*tce*	0.5	1.0	0.874	
*lab*ncE*	0.0	1.0	b49r	

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*TLS00 setcmykcolor*
output: *no change compared to input*

BAM registration: 20050101-ME44/10L/L44E01NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 2/6, Serie: 3/4, Page: 2
Page: count: 14

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.2*
*LAB*LABx: 66.26, 25.15, 77.47*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.26	−46.63	69.9	
*LAB*LABa*	69.26	−46.07	67.49	
*LAB*TCHa*	50.0	81.72	124.32	
CIELAB relative:				
*lab*lab*	0.661	−0.563	0.826	
*lab*tch*	0.5	1.0	0.345	
*lab*nch*	0.0	1.0	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	−0.658	0.752	
*lab*tce*	0.5	1.0	0.364	
*lab*ncE*	0.0	1.0	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.32	−16.73	106.88	
*LAB*LABa*	90.32	−16.51	104.33	
*LAB*TCHa*	50.0	105.63	99.0	
CIELAB relative:				
*lab*lab*	0.925	−0.155	0.988	
*lab*tch*	0.5	1.0	0.275	
*lab*nch*	0.0	1.0	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.925	−0.149	0.989	
*lab*tce*	0.5	1.0	0.274	
*lab*ncE*	0.0	1.0	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.26	24.54	79.86	
*LAB*LABa*	66.26	25.15	77.47	
*LAB*TCHa*	50.0	81.45	72.01	
CIELAB relative:				
*lab*lab*	0.623	0.309	0.951	
*lab*tch*	0.5	1.0	0.2	
*lab*nch*	0.0	1.0	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.623	0.459	0.888	
*lab*tce*	0.5	1.0	0.174	
*lab*ncE*	0.0	1.0	r69j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.21	−76.53	32.93	
*LAB*LABa*	48.21	−75.63	30.65	
*LAB*TCHa*	50.0	81.61	157.94	
CIELAB relative:				
*lab*lab*	0.397	−0.926	0.376	
*lab*tch*	0.5	1.0	0.439	
*lab*nch*	0.0	1.0	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.397	−0.994	0.096	
*lab*tce*	0.5	1.0	0.485	
*lab*ncE*	0.0	1.0	j93g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.44	−0.76	2.33	
*LAB*LABa*	56.44	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	0.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	0.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.21	65.82	52.84	
*LAB*LABa*	42.21	66.82	50.6	
*LAB*TCHa*	50.0	83.82	37.14	
CIELAB relative:				
*lab*lab*	0.322	0.797	0.604	
*lab*tch*	0.5	1.0	0.103	
*lab*nch*	0.0	1.0	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.322	0.963	0.271	
*lab*tce*	0.5	1.0	0.044	
*lab*ncE*	0.0	1.0	r17j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	53.44	−34.15	−45.18	
*LAB*LABa*	53.44	−33.33	−47.49	
*LAB*TCHa*	50.0	58.03	234.93	
CIELAB relative:				
*lab*lab*	0.462	−0.574	−0.817	
*lab*tch*	0.5	1.0	0.653	
*lab*nch*	0.0	1.0	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.462	−0.503	−0.863	
*lab*tce*	0.5	1.0	0.666	
*lab*ncE*	0.0	1.0	g66b	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	34.16	−2.05	−44.38	
*LAB*LABa*	34.16	−0.92	−46.56	
*LAB*TCHa*	50.0	46.58	268.86	
CIELAB relative:				
*lab*lab*	0.221	−0.019	−0.999	
*lab*tch*	0.5	1.0	0.747	
*lab*nch*	0.0	1.0	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.221	−0.04	−0.998	
*lab*tce*	0.5	1.0	0.743	
*lab*ncE*	0.0	1.0	g97b	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.71	78.01	0.28	
*LAB*LABa*	42.71	79.0	−1.95	
*LAB*TCHa*	50.0	79.03	358.58	
CIELAB relative:				
*lab*lab*	0.328	1.0	−0.024	
*lab*tch*	0.5	1.0	0.996	
*lab*nch*	0.0	1.0	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.328	0.932	−0.362	
*lab*tce*	0.5	1.0	0.941	
*lab*ncE*	0.0	1.0	b76r	

All data for the colour R50J’

R50J’

LAB*Fa: 66.26, 25.15, 77.47
LCH*Fa: 66.26, 81.45, 72.01

LAB*Ma: 66.26, 25.15, 77.47
LCH*Ma: 66.26, 81.45, 72.01

LAB*Sa: 66.27, 25.15, 77.47
LCH*Sa: 66.27, 81.45, 72.01

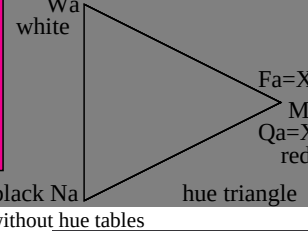
LAB*Qa: 66.26, 25.15, 77.47
LCH*Qa: 66.26, 81.45, 72.01

LAB*Xa: 66.26, 25.15, 77.47
LCH*Xa: 66.26, 81.45, 72.01

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.2
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.2
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.2
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.2
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.2
ncw*Xa: 0.0, 1.0, 0.0

B50R’



J50G’ J’ R50J’

G’ B’

G50J’ G50B’ B50R’

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*DRSxx* as transfer input; individual colour calculation without hue tables

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.192*
*LAB*LABx: 72.72, 25.87, 67.65*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.37	−49.56	79.62	
*LAB*LABa*	88.37	−49.56	79.62	
*LAB*TCHa*	50.0	93.79	121.9	
CIELAB relative:				
*lab*lab*	0.909	−0.527	0.849	
*lab*tch*	0.5	1.0	0.339	
*lab*nch*	0.0	1.0	0.339	
Natural Colour (NC) relative:				
*lab*lrj*	0.909	−0.616	0.787	
*lab*tce*	0.5	1.0	0.356	
*lab*ncE*	0.0	1.0	j42g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.74	−20.04	85.13	
*LAB*LABa*	92.74	−20.04	85.13	
*LAB*TCHa*	50.0	87.46	103.25	
CIELAB relative:				
*lab*lab*	0.966	−0.228	0.973	
*lab*tch*	0.5	1.0	0.287	
*lab*nch*	0.0	1.0	0.287	
Natural Colour (NC) relative:				
*lab*lrj*	0.966	−0.242	0.97	
*lab*tce*	0.5	1.0	0.289	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	72.72	25.87	67.65	
*LAB*LABa*	72.72	25.87	67.65	
*LAB*TCHa*	50.0	72.43	69.07	
CIELAB relative:				
*lab*lab*	0.707	0.357	0.934	
*lab*tch*	0.5	1.0	0.192	
*lab*nch*	0.0	1.0	0.192	
Natural Colour (NC) relative:				
*lab*lrj*	0.707	0.519	0.855	
*lab*tce*	0.5	1.0	0.163	
*lab*ncE*	0.0	1.0	r65j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.99	−79.07	74.11	
*LAB*LABa*	83.99	−79.07	74.11	
*LAB*TCHa*	50.0	108.38	136.86	
CIELAB relative:				
*lab*lab*	0.852	−0.729	0.684	
*lab*tch*	0.5	1.0	0.38	
*lab*nch*	0.0	1.0	0.38	
Natural Colour (NC) relative:				
*lab*lrj*	0.852	−0.841	0.54	
*lab*tce*	0.5	1.0	0.409	
*lab*ncE*	0.0	1.0	j63g	

(unnamed)

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	52.7	71.79	50.18	
*LAB*LABa*	52.7	71.79	50.18	
*LAB*TCHa*	50.0	87.59	34.95	
CIELAB relative:				
*lab*lab*	0.448	0.82	0.573	
*lab*tch*	0.5	1.0	0.097	
*lab*nch*	0.0	1.0	0.097	
Natural Colour (NC) relative:				
*lab*lrj*	0.448	0.975	0.221	
*lab*tce*	0.5	1.0	0.035	
*lab*ncE*	0.0	1.0	r14j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	87.13	−44.45	−13.13	
*LAB*LABa*	87.13	−44.45	−13.13	
*LAB*TCHa*	50.0	46.36	196.46	
CIELAB relative:				
*lab*lab*	0.893	−0.958	−0.282	
*lab*tch*	0.5	1.0	0.546	
*lab*nch*	0.0	1.0	0.546	
Natural Colour (NC) relative:				
*lab*lrj*	0.893	−0.881	−0.471	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	31.75	24.65	−37.53	
*LAB*LABa*	31.75	24.65	−37.53	
*LAB*TCHa*	50.0	44.91	303.29	
CIELAB relative:				
*lab*lab*	0.178	0.549	−0.835	
*lab*tch*	0.5	1.0	0.842	
*lab*nch*	0.0	1.0	0.842	
Natural Colour (NC) relative:				
*lab*lrj*	0.178	0.422	−0.906	
*lab*tce*	0.5	1.0	0.819	
*lab*ncE*	0.0	1.0	b27r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.96	89.48	−19.46	
*LAB*LABa*	58.96	89.48	−19.46	
*LAB*TCHa*	50.0	91.57	347.72	
CIELAB relative:				
*lab*lab*	0.529	0.977	−0.212	
*lab*tch*	0.5	1.0	0.966	
*lab*nch*	0.0	1.0	0.966	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.867	−0.497	
*lab*tce*	0.5	1.0	0.917	
*lab*ncE*	0.0	1.0	b66r	

All data for the colour R50J’

R50J’

LAB*Fa: 72.72, 25.87, 67.65
LCH*Fa: 72.72, 72.43, 69.07

LAB*Ma: 72.72, 25.87, 67.65
LCH*Ma: 72.72, 72.43, 69.07

LAB*Sa: 72.72, 25.87, 67.65
LCH*Sa: 72.72, 72.43, 69.07

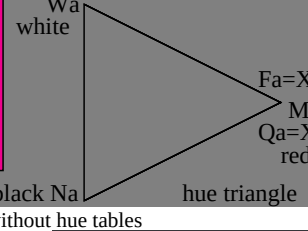
LAB*Qa: 72.72, 25.87, 67.65
LCH*Qa: 72.72, 72.43, 69.07

LAB*Xa: 72.72, 25.87, 67.65
LCH*Xa: 72.72, 72.43, 69.07

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.192
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.192
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.192
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.192
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.192
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E03NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 4/6, Serie: 3/4, Page: 4
Page: count: 16

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

equivalent colorimetric colour coordinates

System: *SLS00*

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.167*
*LAB*LABx: 50.0, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	−43.29	75.0	
*LAB*LABa*	50.0	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	0.0	100.0	
*LAB*LABa*	66.66	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	43.3	75.0	
*LAB*LABa*	50.0	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	−86.59	50.0	
*LAB*LABa*	33.33	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

[blank]

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.01	0.0	0.0	
*LAB*LABa*	50.01	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	33.33	86.6	50.0	
*LAB*LABa*	33.33	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	−86.59	−49.99	
*LAB*LABa*	66.66	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	0.0	−99.99	
*LAB*LABa*	33.33	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	86.6	−49.99	
*LAB*LABa*	66.66	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 50.0, 43.3, 75.0
LCH*Fa: 50.0, 86.6, 60.0

LAB*Ma: 50.0, 43.3, 75.0
LCH*Ma: 50.0, 86.6, 60.0

LAB*Sa: 50.0, 43.3, 75.0
LCH*Sa: 50.0, 86.6, 60.0

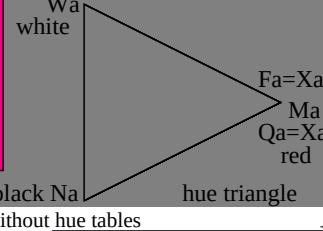
LAB*Qa: 50.0, 43.3, 75.0
LCH*Qa: 50.0, 86.6, 60.0

LAB*Xa: 50.0, 43.3, 75.0
LCH*Xa: 50.0, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E04NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 5/6, Serie: 3/4, Page: 5
Page: count: 17

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

equivalent colorimetric colour coordinates

System: *SRS18*

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*
*lab*nch*: 0.0, 1.0, 0.167*
*LAB*LABx: 56.71, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	−43.29	75.0	
*LAB*LABa*	56.71	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	0.0	100.0	
*LAB*LABa*	69.61	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	43.3	75.0	
*LAB*LABa*	56.71	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	−86.59	50.0	
*LAB*LABa*	43.81	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	43.81	86.6	50.0	
*LAB*LABa*	43.81	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	−86.59	−49.99	
*LAB*LABa*	69.61	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	0.0	−99.99	
*LAB*LABa*	43.81	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	86.6	−49.99	
*LAB*LABa*	69.61	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 56.71, 43.3, 75.0
LCH*Fa: 56.71, 86.6, 60.0

LAB*Ma: 56.71, 43.3, 75.0
LCH*Ma: 56.71, 86.6, 60.0

LAB*Sa: 56.71, 43.3, 75.0
LCH*Sa: 56.71, 86.6, 60.0

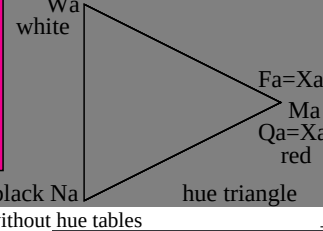
LAB*Qa: 56.71, 43.3, 75.0
LCH*Qa: 56.71, 86.6, 60.0

LAB*Xa: 56.71, 43.3, 75.0
LCH*Xa: 56.71, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.0, 1.0, 0.162*

*LAB*LABx: 69.15, 27.56, 71.13*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0

CIELAB absolute:

*LAB*LAB*	70.64	−37.06	66.44
*LAB*LABa*	70.64	−36.54	63.35
*LAB*TCHa*	50.0	73.14	119.98

CIELAB relative:

*lab*lab*	0.68	−0.499	0.866
*lab*tch*	0.5	1.0	0.333
*lab*nch*	0.0	1.0	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.68	−0.581	0.813
*lab*tce*	0.5	1.0	0.349
*lab*ncE*	0.0	1.0	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0

CIELAB absolute:

*LAB*LAB*	90.37	−11.15	96.17
*LAB*LABa*	90.37	−10.26	91.75
*LAB*TCHa*	50.0	92.32	96.38

CIELAB relative:

*lab*lab*	0.935	−0.11	0.994
*lab*tch*	0.5	1.0	0.268
*lab*nch*	0.0	1.0	0.268

Natural Colour (NC) relative:

*lab*lrj*	0.935	−0.09	0.996
*lab*tce*	0.5	1.0	0.265
*lab*ncE*	0.0	1.0	j05g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0

CIELAB absolute:

*LAB*LAB*	69.15	27.08	74.12
*LAB*LABa*	69.15	27.56	71.13
*LAB*TCHa*	50.0	76.29	68.82

CIELAB relative:

*lab*lab*	0.661	0.361	0.932
*lab*tch*	0.5	1.0	0.191
*lab*nch*	0.0	1.0	0.191

Natural Colour (NC) relative:

*lab*lrj*	0.661	0.524	0.851
*lab*tce*	0.5	1.0	0.162
*lab*ncE*	0.0	1.0	r64j

G’

Inform. Techn. (IT) relative:

*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0

CIELAB absolute:

*LAB*LAB*	50.9	−62.96	36.71
*LAB*LABa*	50.9	−62.83	34.96
*LAB*TCHa*	50.0	71.91	150.91

CIELAB relative:

*lab*lab*	0.425	−0.873	0.486
*lab*tch*	0.5	1.0	0.419
*lab*nch*	0.0	1.0	0.419

Natural Colour (NC) relative:

*lab*lrj*	0.425	−0.967	0.251
*lab*tce*	0.5	1.0	0.46
*lab*ncE*	0.0	1.0	j83g

B’

Inform. Techn. (IT) relative:

*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

CIELAB absolute:

*LAB*LAB*	56.71	−0.23	2.14
*LAB*LABa*	56.71	0.0	0.0
*LAB*TCHa*	50.0	0.0	–

CIELAB relative:

*lab*lab*	0.5	0.0	0.0
*lab*tch*	0.5	0.0	–
*lab*nch*	0.5	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.0	0.0
*lab*tce*	0.5	0.0	–
*lab*ncE*	0.5	0.0	–

R’

Inform. Techn. (IT) relative:

*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

CIELAB absolute:

*LAB*LAB*	47.94	65.31	52.07
*LAB*LABa*	47.94	65.39	50.52
*LAB*TCHa*	50.0	82.63	37.69

CIELAB relative:

*lab*lab*	0.387	0.791	0.611
*lab*tch*	0.5	1.0	0.105
*lab*nch*	0.0	1.0	0.105

Natural Colour (NC) relative:

*lab*lrj*	0.387	0.959	0.283
*lab*tce*	0.5	1.0	0.046
*lab*ncE*	0.0	1.0	r18j

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0

CIELAB absolute:

*LAB*LAB*	58.62	−30.62	−42.74
*LAB*LABa*	58.62	−30.34	−45.01
*LAB*TCHa*	50.0	54.3	236.02

CIELAB relative:

*lab*lab*	0.525	−0.558	−0.828
*lab*tch*	0.5	1.0	0.656
*lab*nch*	0.0	1.0	0.656

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.489	−0.871
*lab*tce*	0.5	1.0	0.668
*lab*ncE*	0.0	1.0	g67b

B50R’

Inform. Techn. (IT) relative:

*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0

CIELAB absolute:

*LAB*LAB*	48.13	75.2	−6.79
*LAB*LABa*	48.13	75.28	−8.36
*LAB*TCHa*	50.0	75.74	353.66

CIELAB relative:

*lab*lab*	0.389	0.994	−0.109
*lab*tch*	0.5	1.0	0.982
*lab*nch*	0.0	1.0	0.982

Natural Colour (NC) relative:

*lab*lrj*	0.389	0.905	−0.424
*lab*tce*	0.5	1.0	0.93
*lab*ncE*	0.0	1.0	b72r

All data for the colour R50J’

R50J’

LAB*Fa: 69.15, 27.56, 71.13
LCH*Fa: 69.15, 76.29, 68.82

LAB*Ma: 69.15, 27.56, 71.13
LCH*Ma: 69.15, 76.29, 68.82

LAB*Sa: 69.16, 27.56, 71.13
LCH*Sa: 69.16, 76.29, 68.82

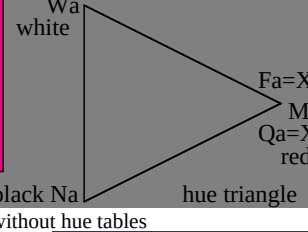
LAB*Qa: 69.15, 27.56, 71.13
LCH*Qa: 69.15, 76.29, 68.82

LAB*Xa: 69.15, 27.56, 71.13
LCH*Xa: 69.15, 76.29, 68.82

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.191
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.191
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.191
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.191
ncw*Xa: 0.0, 1.0, 0.0

B50R’



ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*ORS18* as transfer input; individual colour calculation without hue tables

equivalent colorimetric colour coordinates

System:

TLS00

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.0, 1.0, 0.167*

*LAB*LABx: 71.58, 28.11, 77.65*

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.15	−51.72	85.32	
*LAB*LABa*	88.15	−51.72	85.32	
*LAB*TCHa*	50.0	99.78	121.23	
CIELAB relative:				
*lab*lab*	0.924	−0.517	0.855	
*lab*tch*	0.5	1.0	0.337	
*lab*nch*	0.0	1.0	0.337	
Natural Colour (NC) relative:				
*lab*lrj*	0.924	−0.604	0.796	
*lab*tce*	0.5	1.0	0.353	
*lab*ncE*	0.0	1.0	j41g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.66	−20.69	90.75	
*LAB*LABa*	92.66	−20.69	90.75	
*LAB*TCHa*	50.0	93.08	102.85	
CIELAB relative:				
*lab*lab*	0.971	−0.221	0.975	
*lab*tch*	0.5	1.0	0.286	
*lab*nch*	0.0	1.0	0.286	
Natural Colour (NC) relative:				
*lab*lrj*	0.971	−0.234	0.972	
*lab*tce*	0.5	1.0	0.288	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	71.58	28.11	77.65	
*LAB*LABa*	71.58	28.11	77.65	
*LAB*TCHa*	50.0	82.58	70.1	
CIELAB relative:				
*lab*lab*	0.75	0.34	0.94	
*lab*tch*	0.5	1.0	0.195	
*lab*nch*	0.0	1.0	0.195	
Natural Colour (NC) relative:				
*lab*lrj*	0.75	0.499	0.867	
*lab*tce*	0.5	1.0	0.167	
*lab*ncE*	0.0	1.0	r66j	

All data for the colour R50J’

R50J’

LAB*Fa: 71.58, 28.11, 77.65
LCH*Fa: 71.58, 82.58, 70.1

LAB*Ma: 71.58, 28.11, 77.65
LCH*Ma: 71.58, 82.58, 70.1

LAB*Sa: 71.58, 28.11, 77.65
LCH*Sa: 71.58, 82.58, 70.1

LAB*Qa: 71.58, 28.11, 77.65
LCH*Qa: 71.58, 82.58, 70.1

LAB*Xa: 71.58, 28.11, 77.65
LCH*Xa: 71.58, 82.58, 70.1

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.63	−82.75	79.9	
*LAB*LABa*	83.63	−82.75	79.9	
*LAB*TCHa*	50.0	115.04	136.01	
CIELAB relative:				
*lab*lab*	0.877	−0.718	0.695	
*lab*tch*	0.5	1.0	0.378	
*lab*nch*	0.0	1.0	0.378	
Natural Colour (NC) relative:				
*lab*lrj*	0.877	−0.83	0.556	
*lab*tce*	0.5	1.0	0.406	
*lab*ncE*	0.0	1.0	j62g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	47.71	0.0	0.0	
*LAB*LABa*	47.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.5	76.92	64.55	
*LAB*LABa*	50.5	76.92	64.55	
*LAB*TCHa*	50.0	100.42	40.0	
CIELAB relative:				
*lab*lab*	0.529	0.766	0.643	
*lab*tch*	0.5	1.0	0.111	
*lab*nch*	0.0	1.0	0.111	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.942	0.335	
*lab*tce*	0.5	1.0	0.054	
*lab*ncE*	0.0	1.0	r21j	

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.195
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.195
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.195
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.195
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.195
ncw*Xa: 0.0, 1.0, 0.0

G50B’

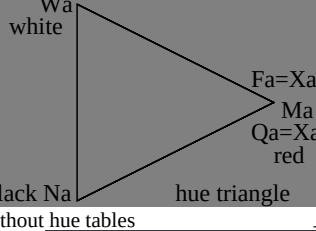
Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	86.88	−46.16	−13.55	
*LAB*LABa*	86.88	−46.16	−13.55	
*LAB*TCHa*	50.0	48.12	196.37	
CIELAB relative:				
*lab*lab*	0.911	−0.958	−0.281	
*lab*tch*	0.5	1.0	0.545	
*lab*nch*	0.0	1.0	0.545	
Natural Colour (NC) relative:				
*lab*lrj*	0.911	−0.881	−0.469	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	30.39	76.06	−103.57	
*LAB*LABa*	30.39	76.06	−103.57	
*LAB*TCHa*	50.0	128.51	306.29	
CIELAB relative:				
*lab*lab*	0.318	0.592	−0.805	
*lab*tch*	0.5	1.0	0.851	
*lab*nch*	0.0	1.0	0.851	
Natural Colour (NC) relative:				
*lab*lrj*	0.318	0.459	−0.887	
*lab*tce*	0.5	1.0	0.826	
*lab*ncE*	0.0	1.0	b30r	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	57.3	94.35	−58.41	
*LAB*LABa*	57.3	94.35	−58.41	
*LAB*TCHa*	50.0	110.97	328.23	
CIELAB relative:				
*lab*lab*	0.601	0.85	−0.525	
*lab*tch*	0.5	1.0	0.912	
*lab*nch*	0.0	1.0	0.912	
Natural Colour (NC) relative:				
*lab*lrj*	0.601	0.703	−0.71	
*lab*tce*	0.5	1.0	0.874	
*lab*ncE*	0.0	1.0	b49r	

B50R’



BAM registration: 20050101-ME44/10L/L44E01NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 2/6, Serie: 4/4, Page: 2
Page: count: 20

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*TLS00* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*TLS00 setcmykcolor*
output: *no change compared to input*

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.0, 1.0, 0.174*

*LAB*LABx: 66.26, 25.15, 77.47*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.26	−46.63	69.9	
*LAB*LABa*	69.26	−46.07	67.49	
*LAB*TCHa*	50.0	81.72	124.32	
CIELAB relative:				
*lab*lab*	0.661	−0.563	0.826	
*lab*tch*	0.5	1.0	0.345	
*lab*nch*	0.0	1.0	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.661	−0.658	0.752	
*lab*tce*	0.5	1.0	0.364	
*lab*ncE*	0.0	1.0	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	90.32	−16.73	106.88	
*LAB*LABa*	90.32	−16.51	104.33	
*LAB*TCHa*	50.0	105.63	99.0	
CIELAB relative:				
*lab*lab*	0.925	−0.155	0.988	
*lab*tch*	0.5	1.0	0.275	
*lab*nch*	0.0	1.0	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.925	−0.149	0.989	
*lab*tce*	0.5	1.0	0.274	
*lab*ncE*	0.0	1.0	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.26	24.54	79.86	
*LAB*LABa*	66.26	25.15	77.47	
*LAB*TCHa*	50.0	81.45	72.01	
CIELAB relative:				
*lab*lab*	0.623	0.309	0.951	
*lab*tch*	0.5	1.0	0.2	
*lab*nch*	0.0	1.0	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.623	0.459	0.888	
*lab*tce*	0.5	1.0	0.174	
*lab*ncE*	0.0	1.0	r69j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	48.21	−76.53	32.93	
*LAB*LABa*	48.21	−75.63	30.65	
*LAB*TCHa*	50.0	81.61	157.94	
CIELAB relative:				
*lab*lab*	0.397	−0.926	0.376	
*lab*tch*	0.5	1.0	0.439	
*lab*nch*	0.0	1.0	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.397	−0.994	0.096	
*lab*tce*	0.5	1.0	0.485	
*lab*ncE*	0.0	1.0	j93g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.44	−0.76	2.33	
*LAB*LABa*	56.44	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	42.21	65.82	52.84	
*LAB*LABa*	42.21	66.82	50.6	
*LAB*TCHa*	50.0	83.82	37.14	
CIELAB relative:				
*lab*lab*	0.322	0.797	0.604	
*lab*tch*	0.5	1.0	0.103	
*lab*nch*	0.0	1.0	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.322	0.963	0.271	
*lab*tce*	0.5	1.0	0.044	
*lab*ncE*	0.0	1.0	r17j	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	53.44	−34.15	−45.18	
*LAB*LABa*	53.44	−33.33	−47.49	
*LAB*TCHa*	50.0	58.03	234.93	
CIELAB relative:				
*lab*lab*	0.462	−0.574	−0.817	
*lab*tch*	0.5	1.0	0.653	
*lab*nch*	0.0	1.0	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.462	−0.503	−0.863	
*lab*tce*	0.5	1.0	0.666	
*lab*ncE*	0.0	1.0	g66b	

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	34.16	−2.05	−44.38	
*LAB*LABa*	34.16	−0.92	−46.56	
*LAB*TCHa*	50.0	46.58	268.86	
CIELAB relative:				
*lab*lab*	0.221	−0.019	−0.999	
*lab*tch*	0.5	1.0	0.747	
*lab*nch*	0.0	1.0	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.221	−0.04	−0.998	
*lab*tce*	0.5	1.0	0.743	
*lab*ncE*	0.0	1.0	g97b	

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	42.71	78.01	0.28	
*LAB*LABa*	42.71	79.0	−1.95	
*LAB*TCHa*	50.0	79.03	358.58	
CIELAB relative:				
*lab*lab*	0.328	1.0	−0.024	
*lab*tch*	0.5	1.0	0.996	
*lab*nch*	0.0	1.0	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.328	0.932	−0.362	
*lab*tce*	0.5	1.0	0.941	
*lab*ncE*	0.0	1.0	b76r	

G50J’ B’ B50R’

All data for the colour R50J’

R50J’

LAB*Fa: 66.26, 25.15, 77.47
LCH*Fa: 66.26, 81.45, 72.01

LAB*Ma: 66.26, 25.15, 77.47
LCH*Ma: 66.26, 81.45, 72.01

LAB*Sa: 66.27, 25.15, 77.47
LCH*Sa: 66.27, 81.45, 72.01

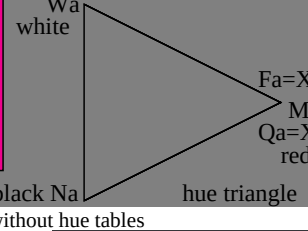
LAB*Qa: 66.26, 25.15, 77.47
LCH*Qa: 66.26, 81.45, 72.01

LAB*Xa: 66.26, 25.15, 77.47
LCH*Xa: 66.26, 81.45, 72.01

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.2
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.2
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.2
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.2
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.2
ncw*Xa: 0.0, 1.0, 0.0

B50R’



equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.0, 1.0, 0.163*

*LAB*LABx: 72.72, 25.87, 67.65*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	88.37	−49.56	79.62	
*LAB*LABa*	88.37	−49.56	79.62	
*LAB*TCHa*	50.0	93.79	121.9	
CIELAB relative:				
*lab*lab*	0.909	−0.527	0.849	
*lab*tch*	0.5	1.0	0.339	
*lab*nch*	0.0	1.0	0.339	
Natural Colour (NC) relative:				
*lab*lrj*	0.909	−0.616	0.787	
*lab*tce*	0.5	1.0	0.356	
*lab*ncE*	0.0	1.0	j42g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	92.74	−20.04	85.13	
*LAB*LABa*	92.74	−20.04	85.13	
*LAB*TCHa*	50.0	87.46	103.25	
CIELAB relative:				
*lab*lab*	0.966	−0.228	0.973	
*lab*tch*	0.5	1.0	0.287	
*lab*nch*	0.0	1.0	0.287	
Natural Colour (NC) relative:				
*lab*lrj*	0.966	−0.242	0.97	
*lab*tce*	0.5	1.0	0.289	
*lab*ncE*	0.0	1.0	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	72.72	25.87	67.65	
*LAB*LABa*	72.72	25.87	67.65	
*LAB*TCHa*	50.0	72.43	69.07	
CIELAB relative:				
*lab*lab*	0.707	0.357	0.934	
*lab*tch*	0.5	1.0	0.192	
*lab*nch*	0.0	1.0	0.192	
Natural Colour (NC) relative:				
*lab*lrj*	0.707	0.519	0.855	
*lab*tce*	0.5	1.0	0.163	
*lab*ncE*	0.0	1.0	r65j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	83.99	−79.07	74.11	
*LAB*LABa*	83.99	−79.07	74.11	
*LAB*TCHa*	50.0	108.38	136.86	
CIELAB relative:				
*lab*lab*	0.852	−0.729	0.684	
*lab*tch*	0.5	1.0	0.38	
*lab*nch*	0.0	1.0	0.38	
Natural Colour (NC) relative:				
*lab*lrj*	0.852	−0.841	0.54	
*lab*tce*	0.5	1.0	0.409	
*lab*ncE*	0.0	1.0	j63g	

(grey)

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	52.7	71.79	50.18	
*LAB*LABa*	52.7	71.79	50.18	
*LAB*TCHa*	50.0	87.59	34.95	
CIELAB relative:				
*lab*lab*	0.448	0.82	0.573	
*lab*tch*	0.5	1.0	0.097	
*lab*nch*	0.0	1.0	0.097	
Natural Colour (NC) relative:				
*lab*lrj*	0.448	0.975	0.221	
*lab*tce*	0.5	1.0	0.035	
*lab*ncE*	0.0	1.0	r14j	

G50B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	87.13	−44.45	−13.13	
*LAB*LABa*	87.13	−44.45	−13.13	
*LAB*TCHa*	50.0	46.36	196.46	
CIELAB relative:				
*lab*lab*	0.893	−0.958	−0.282	
*lab*tch*	0.5	1.0	0.546	
*lab*nch*	0.0	1.0	0.546	
Natural Colour (NC) relative:				
*lab*lrj*	0.893	−0.881	−0.471	
*lab*tce*	0.5	1.0	0.578	
*lab*ncE*	0.0	1.0	g31b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	31.75	24.65	−37.53	
*LAB*LABa*	31.75	24.65	−37.53	
*LAB*TCHa*	50.0	44.91	303.29	
CIELAB relative:				
*lab*lab*	0.178	0.549	−0.835	
*lab*tch*	0.5	1.0	0.842	
*lab*nch*	0.0	1.0	0.842	
Natural Colour (NC) relative:				
*lab*lrj*	0.178	0.422	−0.906	
*lab*tce*	0.5	1.0	0.819	
*lab*ncE*	0.0	1.0	b27r	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	58.96	89.48	−19.46	
*LAB*LABa*	58.96	89.48	−19.46	
*LAB*TCHa*	50.0	91.57	347.72	
CIELAB relative:				
*lab*lab*	0.529	0.977	−0.212	
*lab*tch*	0.5	1.0	0.966	
*lab*nch*	0.0	1.0	0.966	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.867	−0.497	
*lab*tce*	0.5	1.0	0.917	
*lab*ncE*	0.0	1.0	b66r	

All data for the colour R50J’

R50J’

LAB*Fa: 72.72, 25.87, 67.65
LCH*Fa: 72.72, 72.43, 69.07

LAB*Ma: 72.72, 25.87, 67.65
LCH*Ma: 72.72, 72.43, 69.07

LAB*Sa: 72.72, 25.87, 67.65
LCH*Sa: 72.72, 72.43, 69.07

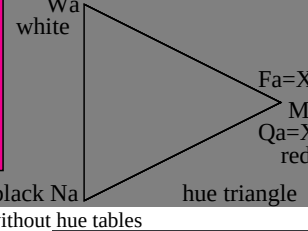
LAB*Qa: 72.72, 25.87, 67.65
LCH*Qa: 72.72, 72.43, 69.07

LAB*Xa: 72.72, 25.87, 67.65
LCH*Xa: 72.72, 72.43, 69.07

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.192
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.192
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.192
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.192
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.192
ncw*Xa: 0.0, 1.0, 0.0

B50R’



BAM registration: 20050101-ME44/10L/L44E03NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME44/ Form: 4/6, Serie: 4/4, Page: 4
Page: count: 22

See for similar files: http://www.ps.bam.de/ME44/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*TLS18* as transfer input; individual colour calculation without hue tables

equivalent colorimetric colour coordinates

System:

SLS00

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.0, 1.0, 0.129*

*LAB*LABx: 50.0, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	−43.29	75.0	
*LAB*LABa*	50.0	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	0.0	100.0	
*LAB*LABa*	66.66	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	50.0	43.3	75.0	
*LAB*LABa*	50.0	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	−86.59	50.0	
*LAB*LABa*	33.33	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

(center)

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	50.01	0.0	0.0	
*LAB*LABa*	50.01	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

R’

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	33.33	86.6	50.0	
*LAB*LABa*	33.33	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	−86.59	−49.99	
*LAB*LABa*	66.66	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	33.33	0.0	−99.99	
*LAB*LABa*	33.33	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	66.66	86.6	−49.99	
*LAB*LABa*	66.66	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 50.0, 43.3, 75.0
LCH*Fa: 50.0, 86.6, 60.0

LAB*Ma: 50.0, 43.3, 75.0
LCH*Ma: 50.0, 86.6, 60.0

LAB*Sa: 50.0, 43.3, 75.0
LCH*Sa: 50.0, 86.6, 60.0

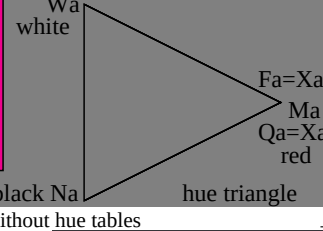
LAB*Qa: 50.0, 43.3, 75.0
LCH*Qa: 50.0, 86.6, 60.0

LAB*Xa: 50.0, 43.3, 75.0
LCH*Xa: 50.0, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’



ME500−7, Approximation of elementary and intermediate colours (8 colours); Device dependent colour coordinates *cmyn*SLS00* as transfer input; individual colour calculation without hue tables

Test chart ME44: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*SLS00 setcmykcolor*
output: *no change compared to input*

equivalent colorimetric colour coordinates

System: *SRS18*

J50G’

olvi3*Fa: 1.0, 0.5, 0.0, 1.0
cmyn3*Fa: 0.0, 0.5, 1.0,
olvi4*Fa: 1.0, 0.5, 0.0, 1.0
cmyn4*Fa: 0.0, 0.5, 1.0, 0.0

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*
*lab*nce: 0.0, 1.0, 0.129*
*LAB*LABx: 56.71, 43.3, 75.0*

G50B’

Input colours:

C, V, M, O, OY, Y, YL, L

Elementary hue reference:

CIE−test colours 9 to 12

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.5	1.0	0.0	(1.0)
*cmyn3**	0.5	0.0	1.0	(0.0)
*olvi4**	0.5	1.0	0.0	1.0
*cmyn4**	0.5	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	−43.29	75.0	
*LAB*LABa*	56.71	−43.29	75.0	
*LAB*TCHa*	50.0	86.6	120.0	
CIELAB relative:				
*lab*lab*	0.5	−0.499	0.866	
*lab*tch*	0.5	1.0	0.333	
*lab*nch*	0.0	1.0	0.333	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	−0.582	0.813	
*lab*tce*	0.5	1.0	0.349	
*lab*ncE*	0.0	1.0	j39g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	0.0	100.0	
*LAB*LABa*	69.61	0.0	100.0	
*LAB*TCHa*	50.0	100.0	90.0	
CIELAB relative:				
*lab*lab*	0.667	0.0	1.0	
*lab*tch*	0.5	1.0	0.25	
*lab*nch*	0.0	1.0	0.25	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.054	0.999	
*lab*tce*	0.5	1.0	0.241	
*lab*ncE*	0.0	1.0	r96j	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.5	0.0	(1.0)
*cmyn3**	0.0	0.5	1.0	(0.0)
*olvi4**	1.0	0.5	0.0	1.0
*cmyn4**	0.0	0.5	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	56.71	43.3	75.0	
*LAB*LABa*	56.71	43.3	75.0	
*LAB*TCHa*	50.0	86.6	60.0	
CIELAB relative:				
*lab*lab*	0.5	0.5	0.866	
*lab*tch*	0.5	1.0	0.167	
*lab*nch*	0.0	1.0	0.167	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.688	0.725	
*lab*tce*	0.5	1.0	0.129	
*lab*ncE*	0.0	1.0	r51j	

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	0.0	(1.0)
*cmyn3**	1.0	0.0	1.0	(0.0)
*olvi4**	0.0	1.0	0.0	1.0
*cmyn4**	1.0	0.0	1.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	−86.59	50.0	
*LAB*LABa*	43.81	−86.59	50.0	
*LAB*TCHa*	50.0	100.0	150.0	
CIELAB relative:				
*lab*lab*	0.333	−0.865	0.5	
*lab*tch*	0.5	1.0	0.417	
*lab*nch*	0.0	1.0	0.417	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.962	0.271	
*lab*tce*	0.5	1.0	0.456	
*lab*ncE*	0.0	1.0	j82g	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	56.71	0.0	0.0	
*LAB*LABa*	56.71	0.0	0.0	
*LAB*TCHa*	50.0	0.0	–	
CIELAB relative:				
*lab*lab*	0.5	0.0	0.0	
*lab*tch*	0.5	0.0	–	
*lab*nch*	0.5	0.0	–	
Natural Colour (NC) relative:				
*lab*lrj*	0.5	0.0	0.0	
*lab*tce*	0.5	0.0	–	
*lab*ncE*	0.5	0.0	–	

Inform. Techn. (IT) relative:				
*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
CIELAB absolute:				
*LAB*LAB*	43.81	86.6	50.0	
*LAB*LABa*	43.81	86.6	50.0	
*LAB*TCHa*	50.0	100.0	30.0	
CIELAB relative:				
*lab*lab*	0.333	0.866	0.5	
*lab*tch*	0.5	1.0	0.083	
*lab*nch*	0.0	1.0	0.083	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	0.994	0.106	
*lab*tce*	0.5	1.0	0.017	
*lab*ncE*	0.0	1.0	r06j	

G50B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	1.0	1.0	(1.0)
*cmyn3**	1.0	0.0	0.0	(0.0)
*olvi4**	0.0	1.0	1.0	1.0
*cmyn4**	1.0	0.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	−86.59	−49.99	
*LAB*LABa*	69.61	−86.59	−49.99	
*LAB*TCHa*	50.0	100.0	210.0	
CIELAB relative:				
*lab*lab*	0.667	−0.865	−0.499	
*lab*tch*	0.5	1.0	0.583	
*lab*nch*	0.0	1.0	0.583	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	−0.773	−0.632	
*lab*tce*	0.5	1.0	0.609	
*lab*ncE*	0.0	1.0	g43b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.0	0.0	1.0	(1.0)
*cmyn3**	1.0	1.0	0.0	(0.0)
*olvi4**	0.0	0.0	1.0	1.0
*cmyn4**	1.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	43.81	0.0	−99.99	
*LAB*LABa*	43.81	0.0	−99.99	
*LAB*TCHa*	50.0	100.0	270.0	
CIELAB relative:				
*lab*lab*	0.333	0.0	−0.999	
*lab*tch*	0.5	1.0	0.75	
*lab*nch*	0.0	1.0	0.75	
Natural Colour (NC) relative:				
*lab*lrj*	0.333	−0.024	−0.999	
*lab*tce*	0.5	1.0	0.746	
*lab*ncE*	0.0	1.0	g98b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	1.0	0.0	1.0	(1.0)
*cmyn3**	0.0	1.0	0.0	(0.0)
*olvi4**	1.0	0.0	1.0	1.0
*cmyn4**	0.0	1.0	0.0	0.0
CIELAB absolute:				
*LAB*LAB*	69.61	86.6	−49.99	
*LAB*LABa*	69.61	86.6	−49.99	
*LAB*TCHa*	50.0	100.0	330.0	
CIELAB relative:				
*lab*lab*	0.667	0.866	−0.499	
*lab*tch*	0.5	1.0	0.917	
*lab*nch*	0.0	1.0	0.917	
Natural Colour (NC) relative:				
*lab*lrj*	0.667	0.721	−0.692	
*lab*tce*	0.5	1.0	0.878	
*lab*ncE*	0.0	1.0	b51r	

All data for the colour R50J’

R50J’

LAB*Fa: 56.71, 43.3, 75.0
LCH*Fa: 56.71, 86.6, 60.0

LAB*Ma: 56.71, 43.3, 75.0
LCH*Ma: 56.71, 86.6, 60.0

LAB*Sa: 56.71, 43.3, 75.0
LCH*Sa: 56.71, 86.6, 60.0

LAB*Qa: 56.71, 43.3, 75.0
LCH*Qa: 56.71, 86.6, 60.0

LAB*Xa: 56.71, 43.3, 75.0
LCH*Xa: 56.71, 86.6, 60.0

R’

olvi3*Fa: 1.0, 0.5, 0.0
tch*Fa: 0.5, 1.0, 0.167
ncw*Fa: 0.0, 1.0, 0.0
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.167
ncw*Ma: 0.0, 1.0, 0.0
olvi3*Sa: 1.0, 0.5, 0.0,
tch*Sa: 0.5, 1.0, 0.167
ncw*Sa: 0.0, 1.0, 0.0
olvi3*Qa: 1.0, 0.5, 0.0,
tch*Qa: 0.5, 1.0, 0.167
ncw*Qa: 0.0, 1.0, 0.0
olvi3*Xa: 1.0, 0.5, 0.0,
tch*Xa: 0.5, 1.0, 0.167
ncw*Xa: 0.0, 1.0, 0.0

B50R’