equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 60.51, 4.13, 10.67*

*LAB*LABx: 60.51, 4.13, 10.67*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.73	−5.8	11.92
*LAB*LABa*	60.73	−5.47	9.5
*LAB*TCHa*	52.5	10.97	119.98

CIELAB relative:

*lab*lab*	0.552	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.552	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.69	−1.91	16.38
*LAB*LABa*	63.69	−1.53	13.76
*LAB*TCHa*	52.5	13.85	96.38

CIELAB relative:

*lab*lab*	0.59	−0.016	0.149
*lab*tch*	0.525	0.15	0.268
*lab*nch*	0.4	0.15	0.268

Natural Colour (NC) relative:

*lab*lrj*	0.59	−0.013	0.149
*lab*tce*	0.525	0.15	0.265
*lab*ncE*	0.4	0.15	j05g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.51	3.82	13.07
*LAB*LABa*	60.51	4.13	10.67
*LAB*TCHa*	52.5	11.44	68.82

CIELAB relative:

*lab*lab*	0.549	0.054	0.14
*lab*tch*	0.525	0.15	0.191
*lab*nch*	0.4	0.15	0.191

Natural Colour (NC) relative:

*lab*lrj*	0.549	0.079	0.128
*lab*tce*	0.525	0.15	0.162
*lab*ncE*	0.4	0.15	r64j

All data for the colour R50J’

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.77	−9.68	7.46
*LAB*LABa*	57.77	−9.42	5.24
*LAB*TCHa*	52.5	10.79	150.91

CIELAB relative:

*lab*lab*	0.514	−0.13	0.073
*lab*tch*	0.525	0.15	0.419
*lab*nch*	0.4	0.15	0.419

Natural Colour (NC) relative:

*lab*lrj*	0.514	−0.144	0.038
*lab*tce*	0.525	0.15	0.46
*lab*ncE*	0.4	0.15	j83g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	−0.27	2.28
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.33	9.55	9.76
*LAB*LABa*	57.33	9.81	7.58
*LAB*TCHa*	52.5	12.39	37.69

CIELAB relative:

*lab*lab*	0.508	0.119	0.092
*lab*tch*	0.525	0.15	0.105
*lab*nch*	0.4	0.15	0.105

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.144	0.042
*lab*tce*	0.525	0.15	0.046
*lab*ncE*	0.4	0.15	r18j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.191
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.191
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.191
ncw*Xa: 0.0, 0.55, 0.45

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	58.93	−4.83	−4.45
*LAB*LABa*	58.93	−4.54	−6.74
*LAB*TCHa*	52.5	8.14	236.02

CIELAB relative:

*lab*lab*	0.529	−0.083	−0.123
*lab*tch*	0.525	0.15	0.656
*lab*nch*	0.4	0.15	0.656

Natural Colour (NC) relative:

*lab*lrj*	0.529	−0.073	−0.13
*lab*tce*	0.525	0.15	0.668
*lab*ncE*	0.4	0.15	g67b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.0	4.47	−4.69
*LAB*LABa*	54.0	4.66	−6.65
*LAB*TCHa*	52.5	8.13	305.0

CIELAB relative:

*lab*lab*	0.465	0.086	−0.122
*lab*tch*	0.525	0.15	0.847
*lab*nch*	0.4	0.15	0.847

Natural Colour (NC) relative:

*lab*lrj*	0.465	0.067	−0.133
*lab*tce*	0.525	0.15	0.823
*lab*ncE*	0.4	0.15	b29r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	57.36	11.03	0.93
*LAB*LABa*	57.36	11.29	−1.24
*LAB*TCHa*	52.5	11.36	353.66

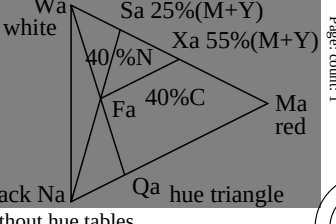
CIELAB relative:

*lab*lab*	0.508	0.149	−0.016
*lab*tch*	0.525	0.15	0.982
*lab*nch*	0.4	0.15	0.982

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.136	−0.063
*lab*tce*	0.525	0.15	0.93
*lab*ncE*	0.4	0.15	b72r

B50R’



G50J’

B’

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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*ORS18 setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E00NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 1/6, Serie: 1/4, Page: 1 Page: count: 1

equivalent colorimetric colour coordinates

System:

TLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	56.16	−7.75	12.8	
*LAB*LABa*	56.16	−7.75	12.8	
*LAB*TCHa*	52.5	14.97	121.23	
CIELAB relative:				
*lab*lab*	0.589	−0.077	0.128	
*lab*tch*	0.525	0.15	0.337	
*lab*nch*	0.4	0.15	0.337	
Natural Colour (NC) relative:				
*lab*lrj*	0.589	−0.09	0.119	
*lab*tce*	0.525	0.15	0.353	
*lab*ncE*	0.4	0.15	j41g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	56.84	−3.1	13.61	
*LAB*LABa*	56.84	−3.1	13.61	
*LAB*TCHa*	52.5	13.96	102.85	
CIELAB relative:				
*lab*lab*	0.596	−0.032	0.146	
*lab*tch*	0.525	0.15	0.286	
*lab*nch*	0.4	0.15	0.286	
Natural Colour (NC) relative:				
*lab*lrj*	0.596	−0.034	0.146	
*lab*tce*	0.525	0.15	0.288	
*lab*ncE*	0.4	0.15	j15g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	53.68	4.22	11.65	
*LAB*LABa*	53.68	4.22	11.65	
*LAB*TCHa*	52.5	12.39	70.1	
CIELAB relative:				
*lab*lab*	0.563	0.051	0.141	
*lab*tch*	0.525	0.15	0.195	
*lab*nch*	0.4	0.15	0.195	
Natural Colour (NC) relative:				
*lab*lrj*	0.563	0.075	0.13	
*lab*tce*	0.525	0.15	0.167	
*lab*ncE*	0.4	0.15	r66j	

All data for the colour R50J’

R50J’

LAB*Fa: 53.68, 4.22, 11.65
LCH*Fa: 53.68, 12.39, 70.1

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

LAB*Sa: 89.45, 7.03, 19.41
LCH*Sa: 89.45, 20.65, 70.1

LAB*Qa: 19.53, 7.67, 21.18
LCH*Qa: 19.53, 22.52, 70.1

LAB*Xa: 82.3, 15.46, 42.71
LCH*Xa: 82.3, 45.42, 70.1

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	55.48	−12.4	11.99	
*LAB*LABa*	55.48	−12.4	11.99	
*LAB*TCHa*	52.5	17.26	136.01	
CIELAB relative:				
*lab*lab*	0.581	−0.107	0.104	
*lab*tch*	0.525	0.15	0.378	
*lab*nch*	0.4	0.15	0.378	
Natural Colour (NC) relative:				
*lab*lrj*	0.581	−0.124	0.083	
*lab*tce*	0.525	0.15	0.406	
*lab*ncE*	0.4	0.15	j62g	

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475
CIELAB absolute:				
*LAB*LAB*	50.1	0.0	0.0	
*LAB*LABa*	50.1	0.0	0.0	
*LAB*TCHa*	52.5	0.0	−	
CIELAB relative:				
*lab*lab*	0.525	0.0	0.0	
*lab*tch*	0.525	0.0	−	
*lab*nch*	0.475	0.0	−	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	0.0	0.0	
*lab*tce*	0.525	0.0	−	
*lab*ncE*	0.475	0.0	−	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	50.51	11.54	9.68	
*LAB*LABa*	50.51	11.54	9.68	
*LAB*TCHa*	52.5	15.06	40.0	
CIELAB relative:				
*lab*lab*	0.529	0.115	0.096	
*lab*tch*	0.525	0.15	0.111	
*lab*nch*	0.4	0.15	0.111	
Natural Colour (NC) relative:				
*lab*lrj*	0.529	0.141	0.05	
*lab*tce*	0.525	0.15	0.054	
*lab*ncE*	0.4	0.15	r21j	

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.195
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.195
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.195
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.195
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 53.68, 4.22, 11.65*

*LAB*LABx: 53.68, 4.22, 11.65*

G50B’

Input colours:

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

Elementary hue reference:

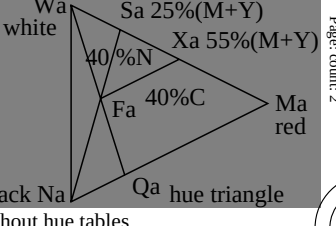
CIE−test colours 9 to 12

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	55.97	−6.92	−2.02	
*LAB*LABa*	55.97	−6.92	−2.02	
*LAB*TCHa*	52.5	7.22	196.37	
CIELAB relative:				
*lab*lab*	0.587	−0.143	−0.041	
*lab*tch*	0.525	0.15	0.545	
*lab*nch*	0.4	0.15	0.545	
Natural Colour (NC) relative:				
*lab*lrj*	0.587	−0.131	−0.07	
*lab*tce*	0.525	0.15	0.578	
*lab*ncE*	0.4	0.15	g31b	

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	47.5	11.41	−15.53	
*LAB*LABa*	47.5	11.41	−15.53	
*LAB*TCHa*	52.5	19.28	306.29	
CIELAB relative:				
*lab*lab*	0.498	0.089	−0.12	
*lab*tch*	0.525	0.15	0.851	
*lab*nch*	0.4	0.15	0.851	
Natural Colour (NC) relative:				
*lab*lrj*	0.498	0.069	−0.132	
*lab*tce*	0.525	0.15	0.826	
*lab*ncE*	0.4	0.15	b30r	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	51.53	14.15	−8.75	
*LAB*LABa*	51.53	14.15	−8.75	
*LAB*TCHa*	52.5	16.65	328.23	
CIELAB relative:				
*lab*lab*	0.54	0.128	−0.078	
*lab*tch*	0.525	0.15	0.912	
*lab*nch*	0.4	0.15	0.912	
Natural Colour (NC) relative:				
*lab*lrj*	0.54	0.106	−0.106	
*lab*tce*	0.525	0.15	0.874	
*lab*ncE*	0.4	0.15	b49r	

B50R’



G’ G50J’ J’ B’ R’ B50R’

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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E01NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 2/6, Serie: 1/4, Page: 2 Page: count: 2

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 59.9, 3.77, 11.62*

*LAB*LABx: 59.9, 3.77, 11.62*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	60.35	−7.61	12.48	
*LAB*LABa*	60.35	−6.9	10.12	
*LAB*TCHa*	52.5	12.26	124.32	
CIELAB relative:				
*lab*lab*	0.549	−0.084	0.124	
*lab*tch*	0.525	0.15	0.345	
*lab*nch*	0.4	0.15	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.549	−0.098	0.113	
*lab*tce*	0.525	0.15	0.364	
*lab*ncE*	0.4	0.15	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	63.51	−3.12	18.03	
*LAB*LABa*	63.51	−2.47	15.65	
*LAB*TCHa*	52.5	15.84	99.0	
CIELAB relative:				
*lab*lab*	0.589	−0.022	0.148	
*lab*tch*	0.525	0.15	0.275	
*lab*nch*	0.4	0.15	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.589	−0.021	0.148	
*lab*tce*	0.525	0.15	0.274	
*lab*ncE*	0.4	0.15	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	59.9	3.06	13.97	
*LAB*LABa*	59.9	3.77	11.62	
*LAB*TCHa*	52.5	12.22	72.01	
CIELAB relative:				
*lab*lab*	0.543	0.046	0.143	
*lab*tch*	0.525	0.15	0.2	
*lab*nch*	0.4	0.15	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.543	0.069	0.133	
*lab*tce*	0.525	0.15	0.174	
*lab*ncE*	0.4	0.15	r69j	

All data for the colour R50J’

R50J’

LAB*Fa: 59.9, 3.77, 11.62
LCH*Fa: 59.9, 12.22, 72.01

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

LAB*Sa: 88.8, 6.29, 19.37
LCH*Sa: 88.8, 20.36, 72.01

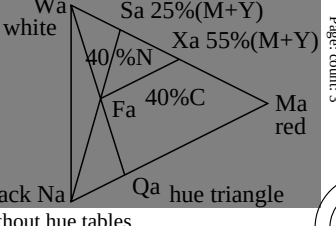
LAB*Qa: 30.12, 6.86, 21.13
LCH*Qa: 30.12, 22.21, 72.01

LAB*Xa: 79.79, 13.83, 42.61
LCH*Xa: 79.79, 44.8, 72.01

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.2
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.2
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.2
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.2
ncw*Xa: 0.0, 0.55, 0.45

B50R’



G’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	57.2	−12.09	6.93	
*LAB*LABa*	57.2	−11.34	4.6	
*LAB*TCHa*	52.5	12.24	157.94	
CIELAB relative:				
*lab*lab*	0.51	−0.138	0.056	
*lab*tch*	0.525	0.15	0.439	
*lab*nch*	0.4	0.15	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.51	−0.148	0.014	
*lab*tce*	0.525	0.15	0.485	
*lab*ncE*	0.4	0.15	j93g	

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475
CIELAB absolute:				
*LAB*LAB*	58.43	−0.73	2.34	
*LAB*LABa*	58.43	0.0	0.0	
*LAB*TCHa*	52.5	0.0	−	
CIELAB relative:				
*lab*lab*	0.525	0.0	0.0	
*lab*tch*	0.525	0.0	−	
*lab*nch*	0.475	0.0	−	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	0.0	0.0	
*lab*tce*	0.525	0.0	−	
*lab*ncE*	0.475	0.0	−	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	56.3	9.25	9.92	
*LAB*LABa*	56.3	10.02	7.59	
*LAB*TCHa*	52.5	12.57	37.14	
CIELAB relative:				
*lab*lab*	0.498	0.12	0.091	
*lab*tch*	0.525	0.15	0.103	
*lab*nch*	0.4	0.15	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.498	0.144	0.041	
*lab*tce*	0.525	0.15	0.044	
*lab*ncE*	0.4	0.15	r17j	

G50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	57.98	−5.74	−4.78	
*LAB*LABa*	57.98	−4.99	−7.12	
*LAB*TCHa*	52.5	8.71	234.93	
CIELAB relative:				
*lab*lab*	0.519	−0.085	−0.122	
*lab*tch*	0.525	0.15	0.653	
*lab*nch*	0.4	0.15	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.519	−0.075	−0.129	
*lab*tce*	0.525	0.15	0.666	
*lab*ncE*	0.4	0.15	g66b	

B’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	55.09	−0.92	−4.65	
*LAB*LABa*	55.09	−0.13	−6.98	
*LAB*TCHa*	52.5	6.99	268.86	
CIELAB relative:				
*lab*lab*	0.483	−0.002	−0.149	
*lab*tch*	0.525	0.15	0.747	
*lab*nch*	0.4	0.15	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.483	−0.005	−0.149	
*lab*tce*	0.525	0.15	0.743	
*lab*ncE*	0.4	0.15	g97b	

B50R’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	56.37	11.08	2.04	
*LAB*LABa*	56.37	11.85	−0.28	
*LAB*TCHa*	52.5	11.85	358.58	
CIELAB relative:				
*lab*lab*	0.499	0.15	−0.003	
*lab*tch*	0.525	0.15	0.996	
*lab*nch*	0.4	0.15	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.499	0.14	−0.053	
*lab*tce*	0.525	0.15	0.941	
*lab*ncE*	0.4	0.15	b76r	

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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E02NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 3/6, Serie: 1/4, Page: 3 Page: count: 3

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.39	−7.42	11.94
*LAB*LABa*	63.39	−7.42	11.94
*LAB*TCHa*	52.5	14.07	121.9

CIELAB relative:

*lab*lab*	0.586	−0.092	0.127
*lab*tch*	0.525	0.15	0.339
*lab*nch*	0.4	0.15	0.339

Natural Colour (NC) relative:

*lab*lrj*	0.586	−0.092	0.118
*lab*tce*	0.525	0.15	0.356
*lab*ncE*	0.4	0.15	j42g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	64.05	−3.0	12.77
*LAB*LABa*	64.05	−3.0	12.77
*LAB*TCHa*	52.5	13.12	103.25

CIELAB relative:

*lab*lab*	0.595	−0.033	0.146
*lab*tch*	0.525	0.15	0.287
*lab*nch*	0.4	0.15	0.287

Natural Colour (NC) relative:

*lab*lrj*	0.595	−0.036	0.145
*lab*tce*	0.525	0.15	0.289
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	61.05	3.88	10.15
*LAB*LABa*	61.05	3.88	10.15
*LAB*TCHa*	52.5	10.86	69.07

CIELAB relative:

*lab*lab*	0.556	0.054	0.14
*lab*tch*	0.525	0.15	0.192
*lab*nch*	0.4	0.15	0.192

Natural Colour (NC) relative:

*lab*lrj*	0.556	0.078	0.128
*lab*tce*	0.525	0.15	0.163
*lab*ncE*	0.4	0.15	r65j

All data for the colour R50J’

R50J’

LAB*Fa: 61.05, 3.88, 10.15
LCH*Fa: 61.05, 10.86, 69.07

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

LAB*Sa: 89.74, 6.47, 16.91
LCH*Sa: 89.74, 18.11, 69.07

LAB*Qa: 32.93, 7.06, 18.45
LCH*Qa: 32.93, 19.75, 69.07

LAB*Xa: 82.93, 14.23, 37.21
LCH*Xa: 82.93, 39.84, 69.07

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	62.74	−11.85	11.12
*LAB*LABa*	62.74	−11.85	11.12
*LAB*TCHa*	52.5	16.26	136.86

CIELAB relative:

*lab*lab*	0.578	−0.108	0.103
*lab*tch*	0.525	0.15	0.38
*lab*nch*	0.4	0.15	0.38

Natural Colour (NC) relative:

*lab*lrj*	0.578	−0.125	0.081
*lab*tce*	0.525	0.15	0.409
*lab*ncE*	0.4	0.15	j63g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.04	10.77	7.53
*LAB*LABa*	58.04	10.77	7.53
*LAB*TCHa*	52.5	13.14	34.95

CIELAB relative:

*lab*lab*	0.517	0.123	0.086
*lab*tch*	0.525	0.15	0.097
*lab*nch*	0.4	0.15	0.097

Natural Colour (NC) relative:

*lab*lrj*	0.517	0.146	0.033
*lab*tce*	0.525	0.15	0.035
*lab*ncE*	0.4	0.15	r14j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.192
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.192
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.192
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.192
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 61.05, 3.88, 10.15*

*LAB*LABx: 61.05, 3.88, 10.15*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	63.21	−6.66	−1.96
*LAB*LABa*	63.21	−6.66	−1.96
*LAB*TCHa*	52.5	6.95	196.46

CIELAB relative:

*lab*lab*	0.584	−0.143	−0.042
*lab*tch*	0.525	0.15	0.546
*lab*nch*	0.4	0.15	0.546

Natural Colour (NC) relative:

*lab*lrj*	0.584	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.9	3.7	−5.62
*LAB*LABa*	54.9	3.7	−5.62
*LAB*TCHa*	52.5	6.74	303.29

CIELAB relative:

*lab*lab*	0.477	0.082	−0.124
*lab*tch*	0.525	0.15	0.842
*lab*nch*	0.4	0.15	0.842

Natural Colour (NC) relative:

*lab*lrj*	0.477	0.063	−0.135
*lab*tce*	0.525	0.15	0.819
*lab*ncE*	0.4	0.15	b27r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	58.98	13.42	−2.91
*LAB*LABa*	58.98	13.42	−2.91
*LAB*TCHa*	52.5	13.74	347.72

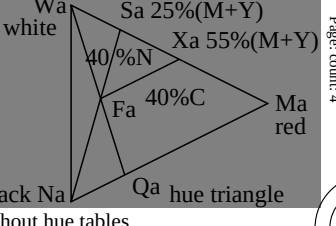
CIELAB relative:

*lab*lab*	0.529	0.147	−0.031
*lab*tch*	0.525	0.15	0.966
*lab*nch*	0.4	0.15	0.966

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.13	−0.074
*lab*tce*	0.525	0.15	0.917
*lab*ncE*	0.4	0.15	b66r

B50R’



G50J’ B’ 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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E03NP.PS/.PDF
application for measurement of printer or monitor systems
BAM material: code=rha4ta
/ME47/ Form: 4/6, Serie: 1/4, Page: 4 Page: count: 4

equivalent colorimetric colour coordinates

System:

SLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	−6.49	11.25
*LAB*LABa*	52.5	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.0	0.0	15.0
*LAB*LABa*	55.0	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	6.5	11.25
*LAB*LABa*	52.5	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 52.5, 6.5, 11.25
LCH*Fa: 52.5, 12.99, 60.0

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

LAB*Sa: 87.5, 10.82, 18.75
LCH*Sa: 87.5, 21.65, 60.0

LAB*Qa: 13.64, 11.81, 20.45
LCH*Qa: 13.64, 23.62, 60.0

LAB*Xa: 72.5, 23.82, 41.25
LCH*Xa: 72.5, 47.63, 60.0

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	−12.98	7.5
*LAB*LABa*	50.0	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	52.5	0.0	0.0
*LAB*LABa*	52.5	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	12.99	7.5
*LAB*LABa*	50.0	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 52.5, 6.5, 11.25*

*LAB*LABx: 52.5, 6.5, 11.25*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.0	−12.98	−7.49
*LAB*LABa*	55.0	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	50.0	0.0	−14.99
*LAB*LABa*	50.0	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.0	12.99	−7.49
*LAB*LABa*	55.0	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

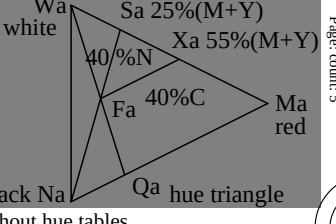
CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	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 ME47: 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/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E04NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

SRS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LAB setcolor*

*LAB*LAB*: 58.65, 6.5, 11.25*

*LAB*LABx: 58.65, 6.5, 11.25*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	−6.49	11.25
*LAB*LABa*	58.65	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.58	0.0	15.0
*LAB*LABa*	60.58	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	6.5	11.25
*LAB*LABa*	58.65	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	−12.98	7.5
*LAB*LABa*	56.71	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	12.99	7.5
*LAB*LABa*	56.71	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	−12.98	−7.49
*LAB*LABa*	60.58	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	56.71	0.0	−14.99
*LAB*LABa*	56.71	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	12.99	−7.49
*LAB*LABa*	60.58	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r

All data for the colour R50J’

R50J’

LAB*Fa: 58.65, 6.5, 11.25
LCH*Fa: 58.65, 12.99, 60.0

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

LAB*Sa: 85.74, 10.82, 18.75
LCH*Sa: 85.74, 21.65, 60.0

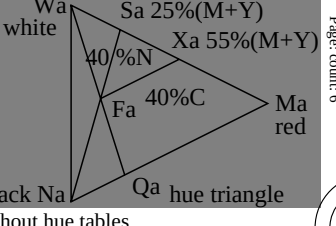
LAB*Qa: 28.56, 11.81, 20.45
LCH*Qa: 28.56, 23.62, 60.0

LAB*Xa: 74.12, 23.82, 41.25
LCH*Xa: 74.12, 47.63, 60.0

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

B50R’



BAM registration: 20050101-ME47/10L/L47E05NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 6/6, Serie: 1/4, Page: 6 Page: count: 6

See for similar files: http://www.ps.bam.de/ME47/
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*SRS18* as transfer input; individual colour calculation without hue tables

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.73	−5.8	11.92
*LAB*LABa*	60.73	−5.47	9.5
*LAB*TCHa*	52.5	10.97	119.98

CIELAB relative:

*lab*lab*	0.552	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.552	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.69	−1.91	16.38
*LAB*LABa*	63.69	−1.53	13.76
*LAB*TCHa*	52.5	13.85	96.38

CIELAB relative:

*lab*lab*	0.59	−0.016	0.149
*lab*tch*	0.525	0.15	0.268
*lab*nch*	0.4	0.15	0.268

Natural Colour (NC) relative:

*lab*lrj*	0.59	−0.013	0.149
*lab*tce*	0.525	0.15	0.265
*lab*ncE*	0.4	0.15	j05g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.51	3.82	13.07
*LAB*LABa*	60.51	4.13	10.67
*LAB*TCHa*	52.5	11.44	68.82

CIELAB relative:

*lab*lab*	0.549	0.054	0.14
*lab*tch*	0.525	0.15	0.191
*lab*nch*	0.4	0.15	0.191

Natural Colour (NC) relative:

*lab*lrj*	0.549	0.079	0.128
*lab*tce*	0.525	0.15	0.162
*lab*ncE*	0.4	0.15	r64j

All data for the colour R50J’

R50J’

LAB*Fa: 60.51, 4.13, 10.67
LCH*Fa: 60.51, 11.44, 68.82

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

LAB*Sa: 88.85, 6.89, 17.78
LCH*Sa: 88.85, 19.07, 68.82

LAB*Qa: 31.96, 7.52, 19.4
LCH*Qa: 31.96, 20.81, 68.82

LAB*Xa: 80.97, 15.16, 39.12
LCH*Xa: 80.97, 41.96, 68.82

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.77	−9.68	7.46
*LAB*LABa*	57.77	−9.42	5.24
*LAB*TCHa*	52.5	10.79	150.91

CIELAB relative:

*lab*lab*	0.514	−0.13	0.073
*lab*tch*	0.525	0.15	0.419
*lab*nch*	0.4	0.15	0.419

Natural Colour (NC) relative:

*lab*lrj*	0.514	−0.144	0.038
*lab*tce*	0.525	0.15	0.46
*lab*ncE*	0.4	0.15	j83g

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 60.51, 11.44, 68.82*

*LAB*LABx: 60.51, 4.13, 10.67*

G50B’

Input colours:

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

Elementary hue reference:

CIE−test colours 9 to 12

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	−0.27	2.28
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45

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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.191
ncw*Sa: 0.0, 0.25, 0.75

olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.191
ncw*Qa: 0.727, 0.273, 0.0

olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.191
ncw*Xa: 0.0, 0.55, 0.45

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.0	4.47	−4.69
*LAB*LABa*	54.0	4.66	−6.65
*LAB*TCHa*	52.5	8.13	305.0

CIELAB relative:

*lab*lab*	0.465	0.086	−0.122
*lab*tch*	0.525	0.15	0.847
*lab*nch*	0.4	0.15	0.847

Natural Colour (NC) relative:

*lab*lrj*	0.465	0.067	−0.133
*lab*tce*	0.525	0.15	0.823
*lab*ncE*	0.4	0.15	b29r

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

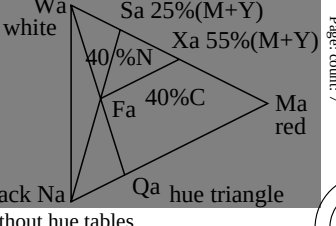
*LAB*LAB*	57.36	11.03	0.93
*LAB*LABa*	57.36	11.29	−1.24
*LAB*TCHa*	52.5	11.36	353.66

CIELAB relative:

*lab*lab*	0.508	0.149	−0.016
*lab*tch*	0.525	0.15	0.982
*lab*nch*	0.4	0.15	0.982

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.136	−0.063
*lab*tce*	0.525	0.15	0.93
*lab*ncE*	0.4	0.15	b72r



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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*ORS18 setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E00NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 1/6, Serie: 2/4, Page: 1 Page: count: 7

equivalent colorimetric colour coordinates

System:

TLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.16	−7.75	12.8
*LAB*LABa*	56.16	−7.75	12.8
*LAB*TCHa*	52.5	14.97	121.23

CIELAB relative:

*lab*lab*	0.589	−0.077	0.128
*lab*tch*	0.525	0.15	0.337
*lab*nch*	0.4	0.15	0.337

Natural Colour (NC) relative:

*lab*lrj*	0.589	−0.09	0.119
*lab*tce*	0.525	0.15	0.353
*lab*ncE*	0.4	0.15	j41g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.84	−3.1	13.61
*LAB*LABa*	56.84	−3.1	13.61
*LAB*TCHa*	52.5	13.96	102.85

CIELAB relative:

*lab*lab*	0.596	−0.032	0.146
*lab*tch*	0.525	0.15	0.286
*lab*nch*	0.4	0.15	0.286

Natural Colour (NC) relative:

*lab*lrj*	0.596	−0.034	0.146
*lab*tce*	0.525	0.15	0.288
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	53.68	4.22	11.65
*LAB*LABa*	53.68	4.22	11.65
*LAB*TCHa*	52.5	12.39	70.1

CIELAB relative:

*lab*lab*	0.563	0.051	0.141
*lab*tch*	0.525	0.15	0.195
*lab*nch*	0.4	0.15	0.195

Natural Colour (NC) relative:

*lab*lrj*	0.563	0.075	0.13
*lab*tce*	0.525	0.15	0.167
*lab*ncE*	0.4	0.15	r66j

All data for the colour R50J’

R50J’

LAB*Fa: 53.68, 4.22, 11.65
LCH*Fa: 53.68, 12.39, 70.1

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

LAB*Sa: 89.45, 7.03, 19.41
LCH*Sa: 89.45, 20.65, 70.1

LAB*Qa: 19.53, 7.67, 21.18
LCH*Qa: 19.53, 22.52, 70.1

LAB*Xa: 82.3, 15.46, 42.71
LCH*Xa: 82.3, 45.42, 70.1

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.48	−12.4	11.99
*LAB*LABa*	55.48	−12.4	11.99
*LAB*TCHa*	52.5	17.26	136.01

CIELAB relative:

*lab*lab*	0.581	−0.107	0.104
*lab*tch*	0.525	0.15	0.378
*lab*nch*	0.4	0.15	0.378

Natural Colour (NC) relative:

*lab*lrj*	0.581	−0.124	0.083
*lab*tce*	0.525	0.15	0.406
*lab*ncE*	0.4	0.15	j62g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	50.1	0.0	0.0
*LAB*LABa*	50.1	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.51	11.54	9.68
*LAB*LABa*	50.51	11.54	9.68
*LAB*TCHa*	52.5	15.06	40.0

CIELAB relative:

*lab*lab*	0.529	0.115	0.096
*lab*tch*	0.525	0.15	0.111
*lab*nch*	0.4	0.15	0.111

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.141	0.05
*lab*tce*	0.525	0.15	0.054
*lab*ncE*	0.4	0.15	r21j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.195
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.195
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.195
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.195
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 53.68, 12.39, 70.1*

*LAB*LABx: 53.68, 4.22, 11.65*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.97	−6.92	−2.02
*LAB*LABa*	55.97	−6.92	−2.02
*LAB*TCHa*	52.5	7.22	196.37

CIELAB relative:

*lab*lab*	0.587	−0.143	−0.041
*lab*tch*	0.525	0.15	0.545
*lab*nch*	0.4	0.15	0.545

Natural Colour (NC) relative:

*lab*lrj*	0.587	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	47.5	11.41	−15.53
*LAB*LABa*	47.5	11.41	−15.53
*LAB*TCHa*	52.5	19.28	306.29

CIELAB relative:

*lab*lab*	0.498	0.089	−0.12
*lab*tch*	0.525	0.15	0.851
*lab*nch*	0.4	0.15	0.851

Natural Colour (NC) relative:

*lab*lrj*	0.498	0.069	−0.132
*lab*tce*	0.525	0.15	0.826
*lab*ncE*	0.4	0.15	b30r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	51.53	14.15	−8.75
*LAB*LABa*	51.53	14.15	−8.75
*LAB*TCHa*	52.5	16.65	328.23

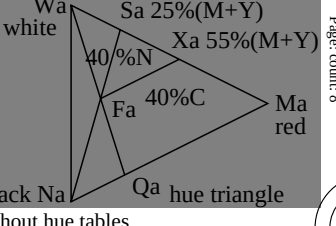
CIELAB relative:

*lab*lab*	0.54	0.128	−0.078
*lab*tch*	0.525	0.15	0.912
*lab*nch*	0.4	0.15	0.912

Natural Colour (NC) relative:

*lab*lrj*	0.54	0.106	−0.106
*lab*tce*	0.525	0.15	0.874
*lab*ncE*	0.4	0.15	b49r

B50R’



G50J’ B’ B50R’

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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E01NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 2/6, Serie: 2/4, Page: 2 Page: count: 8

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.35	−7.61	12.48
*LAB*LABa*	60.35	−6.9	10.12
*LAB*TCHa*	52.5	12.26	124.32

CIELAB relative:

*lab*lab*	0.549	−0.084	0.124
*lab*tch*	0.525	0.15	0.345
*lab*nch*	0.4	0.15	0.345

Natural Colour (NC) relative:

*lab*lrj*	0.549	−0.098	0.113
*lab*tce*	0.525	0.15	0.364
*lab*ncE*	0.4	0.15	j45g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.51	−3.12	18.03
*LAB*LABa*	63.51	−2.47	15.65
*LAB*TCHa*	52.5	15.84	99.0

CIELAB relative:

*lab*lab*	0.589	−0.022	0.148
*lab*tch*	0.525	0.15	0.275
*lab*nch*	0.4	0.15	0.275

Natural Colour (NC) relative:

*lab*lrj*	0.589	−0.021	0.148
*lab*tce*	0.525	0.15	0.274
*lab*ncE*	0.4	0.15	j09g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	59.9	3.06	13.97
*LAB*LABa*	59.9	3.77	11.62
*LAB*TCHa*	52.5	12.22	72.01

CIELAB relative:

*lab*lab*	0.543	0.046	0.143
*lab*tch*	0.525	0.15	0.2
*lab*nch*	0.4	0.15	0.2

Natural Colour (NC) relative:

*lab*lrj*	0.543	0.069	0.133
*lab*tce*	0.525	0.15	0.174
*lab*ncE*	0.4	0.15	r69j

All data for the colour R50J’

R50J’

LAB*Fa: 59.9, 3.77, 11.62
LCH*Fa: 59.9, 12.22, 72.01

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

LAB*Sa: 88.8, 6.29, 19.37
LCH*Sa: 88.8, 20.36, 72.01

LAB*Qa: 30.12, 6.86, 21.13
LCH*Qa: 30.12, 22.21, 72.01

LAB*Xa: 79.79, 13.83, 42.61
LCH*Xa: 79.79, 44.8, 72.01

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.2	−12.09	6.93
*LAB*LABa*	57.2	−11.34	4.6
*LAB*TCHa*	52.5	12.24	157.94

CIELAB relative:

*lab*lab*	0.51	−0.138	0.056
*lab*tch*	0.525	0.15	0.439
*lab*nch*	0.4	0.15	0.439

Natural Colour (NC) relative:

*lab*lrj*	0.51	−0.148	0.014
*lab*tce*	0.525	0.15	0.485
*lab*ncE*	0.4	0.15	j93g

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 59.9, 12.22, 72.01*

*LAB*LABx: 59.9, 3.77, 11.62*

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**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.43	−0.73	2.34
*LAB*LABa*	58.43	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.3	9.25	9.92
*LAB*LABa*	56.3	10.02	7.59
*LAB*TCHa*	52.5	12.57	37.14

CIELAB relative:

*lab*lab*	0.498	0.12	0.091
*lab*tch*	0.525	0.15	0.103
*lab*nch*	0.4	0.15	0.103

Natural Colour (NC) relative:

*lab*lrj*	0.498	0.144	0.041
*lab*tce*	0.525	0.15	0.044
*lab*ncE*	0.4	0.15	r17j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.2
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.2
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.2
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.2
ncw*Xa: 0.0, 0.55, 0.45

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	57.98	−5.74	−4.78
*LAB*LABa*	57.98	−4.99	−7.12
*LAB*TCHa*	52.5	8.71	234.93

CIELAB relative:

*lab*lab*	0.519	−0.085	−0.122
*lab*tch*	0.525	0.15	0.653
*lab*nch*	0.4	0.15	0.653

Natural Colour (NC) relative:

*lab*lrj*	0.519	−0.075	−0.129
*lab*tce*	0.525	0.15	0.666
*lab*ncE*	0.4	0.15	g66b

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.09	−0.92	−4.65
*LAB*LABa*	55.09	−0.13	−6.98
*LAB*TCHa*	52.5	6.99	268.86

CIELAB relative:

*lab*lab*	0.483	−0.002	−0.149
*lab*tch*	0.525	0.15	0.747
*lab*nch*	0.4	0.15	0.747

Natural Colour (NC) relative:

*lab*lrj*	0.483	−0.005	−0.149
*lab*tce*	0.525	0.15	0.743
*lab*ncE*	0.4	0.15	g97b

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

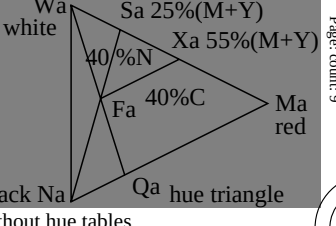
*LAB*LAB*	56.37	11.08	2.04
*LAB*LABa*	56.37	11.85	−0.28
*LAB*TCHa*	52.5	11.85	358.58

CIELAB relative:

*lab*lab*	0.499	0.15	−0.003
*lab*tch*	0.525	0.15	0.996
*lab*nch*	0.4	0.15	0.996

Natural Colour (NC) relative:

*lab*lrj*	0.499	0.14	−0.053
*lab*tce*	0.525	0.15	0.941
*lab*ncE*	0.4	0.15	b76r



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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E02NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 3/6, Serie: 2/4, Page: 3 Page: count: 9

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:			
*olvi3**	0.525	0.6	0.45 (1.0)
*cmyn3**	0.475	0.4	0.55 (0.0)
*olvi4**	0.875	1.0	0.75 0.6
*cmyn4**	0.125	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	63.39	−7.42	11.94
*LAB*LABa*	63.39	−7.42	11.94
*LAB*TCHa*	52.5	14.07	121.9
CIELAB relative:			
*lab*lab*	0.586	−0.078	0.127
*lab*tch*	0.525	0.15	0.339
*lab*nch*	0.4	0.15	0.339
Natural Colour (NC) relative:			
*lab*lrj*	0.586	−0.092	0.118
*lab*tce*	0.525	0.15	0.356
*lab*ncE*	0.4	0.15	j42g

J’

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.6	0.45 (1.0)
*cmyn3**	0.4	0.4	0.55 (0.0)
*olvi4**	1.0	1.0	0.75 0.6
*cmyn4**	0.0	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	64.05	−3.0	12.77
*LAB*LABa*	64.05	−3.0	12.77
*LAB*TCHa*	52.5	13.12	103.25
CIELAB relative:			
*lab*lab*	0.595	−0.033	0.146
*lab*tch*	0.525	0.15	0.287
*lab*nch*	0.4	0.15	0.287
Natural Colour (NC) relative:			
*lab*lrj*	0.595	−0.036	0.145
*lab*tce*	0.525	0.15	0.289
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.525	0.45 (1.0)
*cmyn3**	0.4	0.475	0.55 (0.0)
*olvi4**	1.0	0.875	0.75 0.6
*cmyn4**	0.0	0.125	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	61.05	3.88	10.15
*LAB*LABa*	61.05	3.88	10.15
*LAB*TCHa*	52.5	10.86	69.07
CIELAB relative:			
*lab*lab*	0.556	0.054	0.14
*lab*tch*	0.525	0.15	0.192
*lab*nch*	0.4	0.15	0.192
Natural Colour (NC) relative:			
*lab*lrj*	0.556	0.078	0.128
*lab*tce*	0.525	0.15	0.163
*lab*ncE*	0.4	0.15	r65j

All data for the colour R50J’

R50J’

LAB*Fa: 61.05, 3.88, 10.15
LCH*Fa: 61.05, 10.86, 69.07

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

LAB*Sa: 89.74, 6.47, 16.91
LCH*Sa: 89.74, 18.11, 69.07

LAB*Qa: 32.93, 7.06, 18.45
LCH*Qa: 32.93, 19.75, 69.07

LAB*Xa: 82.93, 14.23, 37.21
LCH*Xa: 82.93, 39.84, 69.07

G’

Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.6	0.45 (1.0)
*cmyn3**	0.55	0.4	0.55 (0.0)
*olvi4**	0.75	1.0	0.75 0.6
*cmyn4**	0.25	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	62.74	−11.85	11.12
*LAB*LABa*	62.74	−11.85	11.12
*LAB*TCHa*	52.5	16.26	136.86
CIELAB relative:			
*lab*lab*	0.578	−0.108	0.103
*lab*tch*	0.525	0.15	0.38
*lab*nch*	0.4	0.15	0.38
Natural Colour (NC) relative:			
*lab*lrj*	0.578	−0.125	0.081
*lab*tce*	0.525	0.15	0.409
*lab*ncE*	0.4	0.15	j63g

Inform. Techn. (IT) relative:			
*olvi3**	0.525	0.525	0.525 (1.0)
*cmyn3**	0.475	0.475	0.475 (0.0)
*olvi4**	1.0	1.0	1.0 0.525
*cmyn4**	0.0	0.0	0.0 0.475
CIELAB absolute:			
*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	–
CIELAB relative:			
*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–
Natural Colour (NC) relative:			
*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.45	0.45 (1.0)
*cmyn3**	0.4	0.55	0.55 (0.0)
*olvi4**	1.0	0.75	0.75 0.6
*cmyn4**	0.0	0.25	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	58.04	10.77	7.53
*LAB*LABa*	58.04	10.77	7.53
*LAB*TCHa*	52.5	13.14	34.95
CIELAB relative:			
*lab*lab*	0.517	0.123	0.086
*lab*tch*	0.525	0.15	0.097
*lab*nch*	0.4	0.15	0.097
Natural Colour (NC) relative:			
*lab*lrj*	0.517	0.146	0.033
*lab*tce*	0.525	0.15	0.035
*lab*ncE*	0.4	0.15	r14j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.192
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.192
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.192
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.192
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 61.05, 10.86, 69.07*

*LAB*LABx: 61.05, 3.88, 10.15*

G50B’

Input colours:

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

Elementary hue reference:

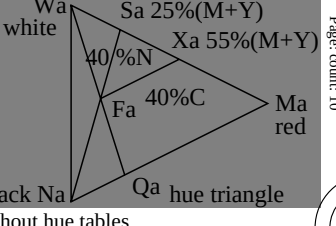
CIE−test colours 9 to 12

Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.6	0.6 (1.0)
*cmyn3**	0.55	0.4	0.4 (0.0)
*olvi4**	0.75	1.0	1.0 0.6
*cmyn4**	0.25	0.0	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	63.21	−6.66	−1.96
*LAB*LABa*	63.21	−6.66	−1.96
*LAB*TCHa*	52.5	6.95	196.46
CIELAB relative:			
*lab*lab*	0.584	−0.143	−0.042
*lab*tch*	0.525	0.15	0.546
*lab*nch*	0.4	0.15	0.546
Natural Colour (NC) relative:			
*lab*lrj*	0.584	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.45	0.6 (1.0)
*cmyn3**	0.55	0.55	0.4 (0.0)
*olvi4**	0.75	0.75	1.0 0.6
*cmyn4**	0.25	0.25	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	54.9	3.7	−5.62
*LAB*LABa*	54.9	3.7	−5.62
*LAB*TCHa*	52.5	6.74	303.29
CIELAB relative:			
*lab*lab*	0.477	0.082	−0.124
*lab*tch*	0.525	0.15	0.842
*lab*nch*	0.4	0.15	0.842
Natural Colour (NC) relative:			
*lab*lrj*	0.477	0.063	−0.135
*lab*tce*	0.525	0.15	0.819
*lab*ncE*	0.4	0.15	b27r

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.45	0.6 (1.0)
*cmyn3**	0.4	0.55	0.4 (0.0)
*olvi4**	1.0	0.75	1.0 0.6
*cmyn4**	0.0	0.25	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	58.98	13.42	−2.91
*LAB*LABa*	58.98	13.42	−2.91
*LAB*TCHa*	52.5	13.74	347.72
CIELAB relative:			
*lab*lab*	0.529	0.147	−0.031
*lab*tch*	0.525	0.15	0.966
*lab*nch*	0.4	0.15	0.966
Natural Colour (NC) relative:			
*lab*lrj*	0.529	0.13	−0.074
*lab*tce*	0.525	0.15	0.917
*lab*ncE*	0.4	0.15	b66r

B50R’



G50J’ B’ 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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E03NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 4/6, Serie: 2/4, Page: 4 Page: count: 10

equivalent colorimetric colour coordinates

System:

SLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 52.5, 12.99, 60.0*

*LAB*LABx: 52.5, 6.5, 11.25*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	−6.49	11.25
*LAB*LABa*	52.5	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.0	0.0	15.0
*LAB*LABa*	55.0	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	6.5	11.25
*LAB*LABa*	52.5	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 52.5, 6.5, 11.25
LCH*Fa: 52.5, 12.99, 60.0

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

LAB*Sa: 87.5, 10.82, 18.75
LCH*Sa: 87.5, 21.65, 60.0

LAB*Qa: 13.64, 11.81, 20.45
LCH*Qa: 13.64, 23.62, 60.0

LAB*Xa: 72.5, 23.82, 41.25
LCH*Xa: 72.5, 47.63, 60.0

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	−12.98	7.5
*LAB*LABa*	50.0	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	52.5	0.0	0.0
*LAB*LABa*	52.5	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	12.99	7.5
*LAB*LABa*	50.0	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.0	−12.98	−7.49
*LAB*LABa*	55.0	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	50.0	0.0	−14.99
*LAB*LABa*	50.0	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

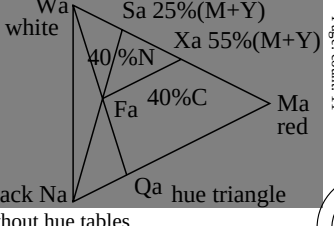
*LAB*LAB*	55.0	12.99	−7.49
*LAB*LABa*	55.0	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r



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 ME47: 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/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E04NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 5/6, Serie: 2/4, Page: 5 Page: count: 11

equivalent colorimetric colour coordinates

System:

SRS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: LAB*LCH setcolor*

*LAB*LCH*: 58.65, 12.99, 60.0*

*LAB*LABx: 58.65, 6.5, 11.25*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	−6.49	11.25
*LAB*LABa*	58.65	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.58	0.0	15.0
*LAB*LABa*	60.58	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	6.5	11.25
*LAB*LABa*	58.65	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	−12.98	7.5
*LAB*LABa*	56.71	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	12.99	7.5
*LAB*LABa*	56.71	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	−12.98	−7.49
*LAB*LABa*	60.58	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	56.71	0.0	−14.99
*LAB*LABa*	56.71	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	12.99	−7.49
*LAB*LABa*	60.58	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r

All data for the colour R50J’

R50J’

LAB*Fa: 58.65, 6.5, 11.25
LCH*Fa: 58.65, 12.99, 60.0

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

LAB*Sa: 85.74, 10.82, 18.75
LCH*Sa: 85.74, 21.65, 60.0

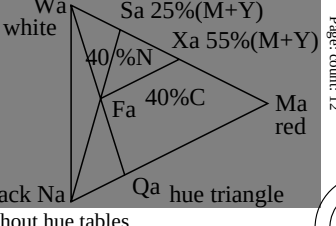
LAB*Qa: 28.56, 11.81, 20.45
LCH*Qa: 28.56, 23.62, 60.0

LAB*Xa: 74.12, 23.82, 41.25
LCH*Xa: 74.12, 47.63, 60.0

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

B50R’



BAM registration: 20050101-ME47/10L/L47E05NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 6/6, Serie: 2/4, Page: 6 Page: count: 12

See for similar files: http://www.ps.bam.de/ME47/
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*SRS18* as transfer input; individual colour calculation without hue tables

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.191*

*LAB*LABx: 60.51, 4.13, 10.67*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.73	−5.8	11.92
*LAB*LABa*	60.73	−5.47	9.5
*LAB*TCHa*	52.5	10.97	119.98

CIELAB relative:

*lab*lab*	0.552	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.552	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.69	−1.91	16.38
*LAB*LABa*	63.69	−1.53	13.76
*LAB*TCHa*	52.5	13.85	96.38

CIELAB relative:

*lab*lab*	0.59	−0.016	0.149
*lab*tch*	0.525	0.15	0.268
*lab*nch*	0.4	0.15	0.268

Natural Colour (NC) relative:

*lab*lrj*	0.59	−0.013	0.149
*lab*tce*	0.525	0.15	0.265
*lab*ncE*	0.4	0.15	j05g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.51	3.82	13.07
*LAB*LABa*	60.51	4.13	10.67
*LAB*TCHa*	52.5	11.44	68.82

CIELAB relative:

*lab*lab*	0.549	0.054	0.14
*lab*tch*	0.525	0.15	0.191
*lab*nch*	0.4	0.15	0.191

Natural Colour (NC) relative:

*lab*lrj*	0.549	0.079	0.128
*lab*tce*	0.525	0.15	0.162
*lab*ncE*	0.4	0.15	r64j

All data for the colour R50J’

R50J’

LAB*Fa: 60.51, 4.13, 10.67
LCH*Fa: 60.51, 11.44, 68.82

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

LAB*Sa: 88.85, 6.89, 17.78
LCH*Sa: 88.85, 19.07, 68.82

LAB*Qa: 31.96, 7.52, 19.4
LCH*Qa: 31.96, 20.81, 68.82

LAB*Xa: 80.97, 15.16, 39.12
LCH*Xa: 80.97, 41.96, 68.82

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.191
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.191
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.191
ncw*Xa: 0.0, 0.55, 0.45

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.77	−9.68	7.46
*LAB*LABa*	57.77	−9.42	5.24
*LAB*TCHa*	52.5	10.79	150.91

CIELAB relative:

*lab*lab*	0.514	−0.13	0.073
*lab*tch*	0.525	0.15	0.419
*lab*nch*	0.4	0.15	0.419

Natural Colour (NC) relative:

*lab*lrj*	0.514	−0.144	0.038
*lab*tce*	0.525	0.15	0.46
*lab*ncE*	0.4	0.15	j83g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	−0.27	2.28
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.33	9.55	9.76
*LAB*LABa*	57.33	9.81	7.58
*LAB*TCHa*	52.5	12.39	37.69

CIELAB relative:

*lab*lab*	0.508	0.119	0.092
*lab*tch*	0.525	0.15	0.105
*lab*nch*	0.4	0.15	0.105

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.144	0.042
*lab*tce*	0.525	0.15	0.046
*lab*ncE*	0.4	0.15	r18j

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	58.93	−4.83	−4.45
*LAB*LABa*	58.93	−4.54	−6.74
*LAB*TCHa*	52.5	8.14	236.02

CIELAB relative:

*lab*lab*	0.529	−0.083	−0.123
*lab*tch*	0.525	0.15	0.656
*lab*nch*	0.4	0.15	0.656

Natural Colour (NC) relative:

*lab*lrj*	0.529	−0.073	−0.13
*lab*tce*	0.525	0.15	0.668
*lab*ncE*	0.4	0.15	g67b

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.0	4.47	−4.69
*LAB*LABa*	54.0	4.66	−6.65
*LAB*TCHa*	52.5	8.13	305.0

CIELAB relative:

*lab*lab*	0.465	0.086	−0.122
*lab*tch*	0.525	0.15	0.847
*lab*nch*	0.4	0.15	0.847

Natural Colour (NC) relative:

*lab*lrj*	0.465	0.067	−0.133
*lab*tce*	0.525	0.15	0.823
*lab*ncE*	0.4	0.15	b29r

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

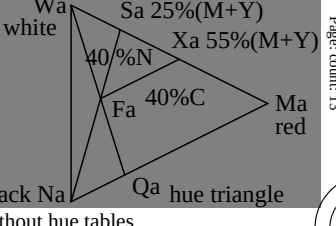
*LAB*LAB*	57.36	11.03	0.93
*LAB*LABa*	57.36	11.29	−1.24
*LAB*TCHa*	52.5	11.36	353.66

CIELAB relative:

*lab*lab*	0.508	0.149	−0.016
*lab*tch*	0.525	0.15	0.982
*lab*nch*	0.4	0.15	0.982

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.136	−0.063
*lab*tce*	0.525	0.15	0.93
*lab*ncE*	0.4	0.15	b72r



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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*ORS18 setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E00NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 1/6, Serie: 3/4, Page: 1 Page: count: 13

equivalent colorimetric colour coordinates

System:

TLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.16	−7.75	12.8
*LAB*LABa*	56.16	−7.75	12.8
*LAB*TCHa*	52.5	14.97	121.23

CIELAB relative:

*lab*lab*	0.589	−0.077	0.128
*lab*tch*	0.525	0.15	0.337
*lab*nch*	0.4	0.15	0.337

Natural Colour (NC) relative:

*lab*lrj*	0.589	−0.09	0.119
*lab*tce*	0.525	0.15	0.353
*lab*ncE*	0.4	0.15	j41g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.84	−3.1	13.61
*LAB*LABa*	56.84	−3.1	13.61
*LAB*TCHa*	52.5	13.96	102.85

CIELAB relative:

*lab*lab*	0.596	−0.032	0.146
*lab*tch*	0.525	0.15	0.286
*lab*nch*	0.4	0.15	0.286

Natural Colour (NC) relative:

*lab*lrj*	0.596	−0.034	0.146
*lab*tce*	0.525	0.15	0.288
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	53.68	4.22	11.65
*LAB*LABa*	53.68	4.22	11.65
*LAB*TCHa*	52.5	12.39	70.1

CIELAB relative:

*lab*lab*	0.563	0.051	0.141
*lab*tch*	0.525	0.15	0.195
*lab*nch*	0.4	0.15	0.195

Natural Colour (NC) relative:

*lab*lrj*	0.563	0.075	0.13
*lab*tce*	0.525	0.15	0.167
*lab*ncE*	0.4	0.15	r66j

All data for the colour R50J’

R50J’

LAB*Fa: 53.68, 4.22, 11.65
LCH*Fa: 53.68, 12.39, 70.1

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

LAB*Sa: 89.45, 7.03, 19.41
LCH*Sa: 89.45, 20.65, 70.1

LAB*Qa: 19.53, 7.67, 21.18
LCH*Qa: 19.53, 22.52, 70.1

LAB*Xa: 82.3, 15.46, 42.71
LCH*Xa: 82.3, 45.42, 70.1

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.48	−12.4	11.99
*LAB*LABa*	55.48	−12.4	11.99
*LAB*TCHa*	52.5	17.26	136.01

CIELAB relative:

*lab*lab*	0.581	−0.107	0.104
*lab*tch*	0.525	0.15	0.378
*lab*nch*	0.4	0.15	0.378

Natural Colour (NC) relative:

*lab*lrj*	0.581	−0.124	0.083
*lab*tce*	0.525	0.15	0.406
*lab*ncE*	0.4	0.15	j62g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	50.1	0.0	0.0
*LAB*LABa*	50.1	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.51	11.54	9.68
*LAB*LABa*	50.51	11.54	9.68
*LAB*TCHa*	52.5	15.06	40.0

CIELAB relative:

*lab*lab*	0.529	0.115	0.096
*lab*tch*	0.525	0.15	0.111
*lab*nch*	0.4	0.15	0.111

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.141	0.05
*lab*tce*	0.525	0.15	0.054
*lab*ncE*	0.4	0.15	r21j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.195
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.195
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.195
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.195
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.195*

*LAB*LABx: 53.68, 4.22, 11.65*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.97	−6.92	−2.02
*LAB*LABa*	55.97	−6.92	−2.02
*LAB*TCHa*	52.5	7.22	196.37

CIELAB relative:

*lab*lab*	0.587	−0.143	−0.041
*lab*tch*	0.525	0.15	0.545
*lab*nch*	0.4	0.15	0.545

Natural Colour (NC) relative:

*lab*lrj*	0.587	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	47.5	11.41	−15.53
*LAB*LABa*	47.5	11.41	−15.53
*LAB*TCHa*	52.5	19.28	306.29

CIELAB relative:

*lab*lab*	0.498	0.089	−0.12
*lab*tch*	0.525	0.15	0.851
*lab*nch*	0.4	0.15	0.851

Natural Colour (NC) relative:

*lab*lrj*	0.498	0.069	−0.132
*lab*tce*	0.525	0.15	0.826
*lab*ncE*	0.4	0.15	b30r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	51.53	14.15	−8.75
*LAB*LABa*	51.53	14.15	−8.75
*LAB*TCHa*	52.5	16.65	328.23

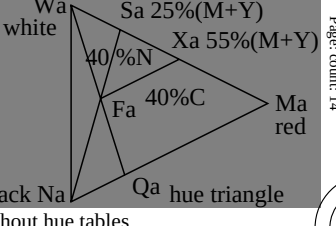
CIELAB relative:

*lab*lab*	0.54	0.128	−0.078
*lab*tch*	0.525	0.15	0.912
*lab*nch*	0.4	0.15	0.912

Natural Colour (NC) relative:

*lab*lrj*	0.54	0.106	−0.106
*lab*tce*	0.525	0.15	0.874
*lab*ncE*	0.4	0.15	b49r

B50R’



G50J’ B’ B50R’

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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E01NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 2/6, Serie: 3/4, Page: 2 Page: count: 14

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	60.35	−7.61	12.48	
*LAB*LABa*	60.35	−6.9	10.12	
*LAB*TCHa*	52.5	12.26	124.32	
CIELAB relative:				
*lab*lab*	0.549	−0.084	0.124	
*lab*tch*	0.525	0.15	0.345	
*lab*nch*	0.4	0.15	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.549	−0.098	0.113	
*lab*tce*	0.525	0.15	0.364	
*lab*ncE*	0.4	0.15	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	63.51	−3.12	18.03	
*LAB*LABa*	63.51	−2.47	15.65	
*LAB*TCHa*	52.5	15.84	99.0	
CIELAB relative:				
*lab*lab*	0.589	−0.022	0.148	
*lab*tch*	0.525	0.15	0.275	
*lab*nch*	0.4	0.15	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.589	−0.021	0.148	
*lab*tce*	0.525	0.15	0.274	
*lab*ncE*	0.4	0.15	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	59.9	3.06	13.97	
*LAB*LABa*	59.9	3.77	11.62	
*LAB*TCHa*	52.5	12.22	72.01	
CIELAB relative:				
*lab*lab*	0.543	0.046	0.143	
*lab*tch*	0.525	0.15	0.2	
*lab*nch*	0.4	0.15	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.543	0.069	0.133	
*lab*tce*	0.525	0.15	0.174	
*lab*ncE*	0.4	0.15	r69j	

All data for the colour R50J’

R50J’

LAB*Fa: 59.9, 3.77, 11.62
LCH*Fa: 59.9, 12.22, 72.01

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

LAB*Sa: 88.8, 6.29, 19.37
LCH*Sa: 88.8, 20.36, 72.01

LAB*Qa: 30.12, 6.86, 21.13
LCH*Qa: 30.12, 22.21, 72.01

LAB*Xa: 79.79, 13.83, 42.61
LCH*Xa: 79.79, 44.8, 72.01

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	57.2	−12.09	6.93	
*LAB*LABa*	57.2	−11.34	4.6	
*LAB*TCHa*	52.5	12.24	157.94	
CIELAB relative:				
*lab*lab*	0.51	−0.138	0.056	
*lab*tch*	0.525	0.15	0.439	
*lab*nch*	0.4	0.15	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.51	−0.148	0.014	
*lab*tce*	0.525	0.15	0.485	
*lab*ncE*	0.4	0.15	j93g	

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475
CIELAB absolute:				
*LAB*LAB*	58.43	−0.73	2.34	
*LAB*LABa*	58.43	0.0	0.0	
*LAB*TCHa*	52.5	0.0	−	
CIELAB relative:				
*lab*lab*	0.525	0.0	0.0	
*lab*tch*	0.525	0.0	−	
*lab*nch*	0.475	0.0	−	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	0.0	0.0	
*lab*tce*	0.525	0.0	−	
*lab*ncE*	0.475	0.0	−	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	56.3	9.25	9.92	
*LAB*LABa*	56.3	10.02	7.59	
*LAB*TCHa*	52.5	12.57	37.14	
CIELAB relative:				
*lab*lab*	0.498	0.12	0.091	
*lab*tch*	0.525	0.15	0.103	
*lab*nch*	0.4	0.15	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.498	0.144	0.041	
*lab*tce*	0.525	0.15	0.044	
*lab*ncE*	0.4	0.15	r17j	

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.2
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.2
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.2
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.2
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.2*

*LAB*LABx: 59.9, 3.77, 11.62*

G50B’

Input colours:

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

Elementary hue reference:

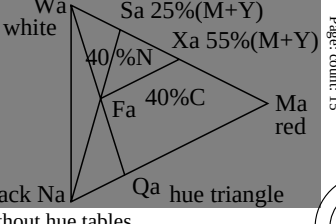
CIE−test colours 9 to 12

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	57.98	−5.74	−4.78	
*LAB*LABa*	57.98	−4.99	−7.12	
*LAB*TCHa*	52.5	8.71	234.93	
CIELAB relative:				
*lab*lab*	0.519	−0.085	−0.122	
*lab*tch*	0.525	0.15	0.653	
*lab*nch*	0.4	0.15	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.519	−0.075	−0.129	
*lab*tce*	0.525	0.15	0.666	
*lab*ncE*	0.4	0.15	g66b	

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	55.09	−0.92	−4.65	
*LAB*LABa*	55.09	−0.13	−6.98	
*LAB*TCHa*	52.5	6.99	268.86	
CIELAB relative:				
*lab*lab*	0.483	−0.002	−0.149	
*lab*tch*	0.525	0.15	0.747	
*lab*nch*	0.4	0.15	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.483	−0.005	−0.149	
*lab*tce*	0.525	0.15	0.743	
*lab*ncE*	0.4	0.15	g97b	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	56.37	11.08	2.04	
*LAB*LABa*	56.37	11.85	−0.28	
*LAB*TCHa*	52.5	11.85	358.58	
CIELAB relative:				
*lab*lab*	0.499	0.15	−0.003	
*lab*tch*	0.525	0.15	0.996	
*lab*nch*	0.4	0.15	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.499	0.14	−0.053	
*lab*tce*	0.525	0.15	0.941	
*lab*ncE*	0.4	0.15	b76r	

B50R’



G50J’ B’ 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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E02NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 3/6, Serie: 3/4, Page: 3 Page: count: 15

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.39	−7.42	11.94
*LAB*LABa*	63.39	−7.42	11.94
*LAB*TCHa*	52.5	14.07	121.9

CIELAB relative:

*lab*lab*	0.586	−0.078	0.127
*lab*tch*	0.525	0.15	0.339
*lab*nch*	0.4	0.15	0.339

Natural Colour (NC) relative:

*lab*lrj*	0.586	−0.092	0.118
*lab*tce*	0.525	0.15	0.356
*lab*ncE*	0.4	0.15	j42g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	64.05	−3.0	12.77
*LAB*LABa*	64.05	−3.0	12.77
*LAB*TCHa*	52.5	13.12	103.25

CIELAB relative:

*lab*lab*	0.595	−0.033	0.146
*lab*tch*	0.525	0.15	0.287
*lab*nch*	0.4	0.15	0.287

Natural Colour (NC) relative:

*lab*lrj*	0.595	−0.036	0.145
*lab*tce*	0.525	0.15	0.289
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	61.05	3.88	10.15
*LAB*LABa*	61.05	3.88	10.15
*LAB*TCHa*	52.5	10.86	69.07

CIELAB relative:

*lab*lab*	0.556	0.054	0.14
*lab*tch*	0.525	0.15	0.192
*lab*nch*	0.4	0.15	0.192

Natural Colour (NC) relative:

*lab*lrj*	0.556	0.078	0.128
*lab*tce*	0.525	0.15	0.163
*lab*ncE*	0.4	0.15	r65j

All data for the colour R50J’

R50J’

LAB*Fa: 61.05, 3.88, 10.15
LCH*Fa: 61.05, 10.86, 69.07

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

LAB*Sa: 89.74, 6.47, 16.91
LCH*Sa: 89.74, 18.11, 69.07

LAB*Qa: 32.93, 7.06, 18.45
LCH*Qa: 32.93, 19.75, 69.07

LAB*Xa: 82.93, 14.23, 37.21
LCH*Xa: 82.93, 39.84, 69.07

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	62.74	−11.85	11.12
*LAB*LABa*	62.74	−11.85	11.12
*LAB*TCHa*	52.5	16.26	136.86

CIELAB relative:

*lab*lab*	0.578	−0.108	0.103
*lab*tch*	0.525	0.15	0.38
*lab*nch*	0.4	0.15	0.38

Natural Colour (NC) relative:

*lab*lrj*	0.578	−0.125	0.081
*lab*tce*	0.525	0.15	0.409
*lab*ncE*	0.4	0.15	j63g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.04	10.77	7.53
*LAB*LABa*	58.04	10.77	7.53
*LAB*TCHa*	52.5	13.14	34.95

CIELAB relative:

*lab*lab*	0.517	0.123	0.086
*lab*tch*	0.525	0.15	0.097
*lab*nch*	0.4	0.15	0.097

Natural Colour (NC) relative:

*lab*lrj*	0.517	0.146	0.033
*lab*tce*	0.525	0.15	0.035
*lab*ncE*	0.4	0.15	r14j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.192
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.192
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.192
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.192
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.192*

*LAB*LABx: 61.05, 3.88, 10.15*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	63.21	−6.66	−1.96
*LAB*LABa*	63.21	−6.66	−1.96
*LAB*TCHa*	52.5	6.95	196.46

CIELAB relative:

*lab*lab*	0.584	−0.143	−0.042
*lab*tch*	0.525	0.15	0.546
*lab*nch*	0.4	0.15	0.546

Natural Colour (NC) relative:

*lab*lrj*	0.584	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.9	3.7	−5.62
*LAB*LABa*	54.9	3.7	−5.62
*LAB*TCHa*	52.5	6.74	303.29

CIELAB relative:

*lab*lab*	0.477	0.082	−0.124
*lab*tch*	0.525	0.15	0.842
*lab*nch*	0.4	0.15	0.842

Natural Colour (NC) relative:

*lab*lrj*	0.477	0.063	−0.135
*lab*tce*	0.525	0.15	0.819
*lab*ncE*	0.4	0.15	b27r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	58.98	13.42	−2.91
*LAB*LABa*	58.98	13.42	−2.91
*LAB*TCHa*	52.5	13.74	347.72

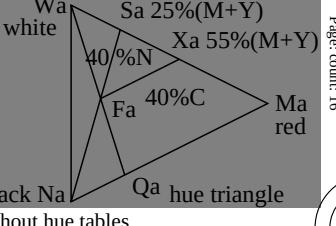
CIELAB relative:

*lab*lab*	0.529	0.147	−0.031
*lab*tch*	0.525	0.15	0.966
*lab*nch*	0.4	0.15	0.966

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.13	−0.074
*lab*tce*	0.525	0.15	0.917
*lab*ncE*	0.4	0.15	b66r

B50R’



G50J’ B’ 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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E03NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 4/6, Serie: 3/4, Page: 4 Page: count: 16

equivalent colorimetric colour coordinates

System:

SLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	−6.49	11.25
*LAB*LABa*	52.5	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.0	0.0	15.0
*LAB*LABa*	55.0	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	52.5	6.5	11.25
*LAB*LABa*	52.5	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 52.5, 6.5, 11.25
LCH*Fa: 52.5, 12.99, 60.0

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

LAB*Sa: 87.5, 10.82, 18.75
LCH*Sa: 87.5, 21.65, 60.0

LAB*Qa: 13.64, 11.81, 20.45
LCH*Qa: 13.64, 23.62, 60.0

LAB*Xa: 72.5, 23.82, 41.25
LCH*Xa: 72.5, 47.63, 60.0

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	−12.98	7.5
*LAB*LABa*	50.0	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.167*

*LAB*LABx: 52.5, 6.5, 11.25*

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	52.5	0.0	0.0
*LAB*LABa*	52.5	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.0	12.99	7.5
*LAB*LABa*	50.0	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.0	−12.98	−7.49
*LAB*LABa*	55.0	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	50.0	0.0	−14.99
*LAB*LABa*	50.0	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.0	12.99	−7.49
*LAB*LABa*	55.0	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

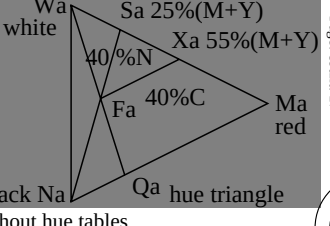
CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	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 ME47: 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/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E04NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

SRS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nch setcolor*

*lab*nch*: 0.4, 0.15, 0.167*

*LAB*LABx: 58.65, 6.5, 11.25*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	−6.49	11.25
*LAB*LABa*	58.65	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.58	0.0	15.0
*LAB*LABa*	60.58	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	6.5	11.25
*LAB*LABa*	58.65	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 58.65, 6.5, 11.25
LCH*Fa: 58.65, 12.99, 60.0

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

LAB*Sa: 85.74, 10.82, 18.75
LCH*Sa: 85.74, 21.65, 60.0

LAB*Qa: 28.56, 11.81, 20.45
LCH*Qa: 28.56, 23.62, 60.0

LAB*Xa: 74.12, 23.82, 41.25
LCH*Xa: 74.12, 47.63, 60.0

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	−12.98	7.5
*LAB*LABa*	56.71	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

B’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	12.99	7.5
*LAB*LABa*	56.71	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	−12.98	−7.49
*LAB*LABa*	60.58	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	56.71	0.0	−14.99
*LAB*LABa*	56.71	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

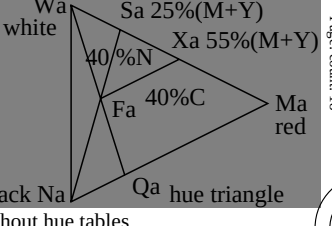
*LAB*LAB*	60.58	12.99	−7.49
*LAB*LABa*	60.58	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r



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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E05NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 6/6, Serie: 3/4, Page: 6 Page: count: 18

equivalent colorimetric colour coordinates

System:

ORS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.73	−5.8	11.92
*LAB*LABa*	60.73	−5.47	9.5
*LAB*TCHa*	52.5	10.97	119.98

CIELAB relative:

*lab*lab*	0.552	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.552	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.69	−1.91	16.38
*LAB*LABa*	63.69	−1.53	13.76
*LAB*TCHa*	52.5	13.85	96.38

CIELAB relative:

*lab*lab*	0.59	−0.016	0.149
*lab*tch*	0.525	0.15	0.268
*lab*nch*	0.4	0.15	0.268

Natural Colour (NC) relative:

*lab*lrj*	0.59	−0.013	0.149
*lab*tce*	0.525	0.15	0.265
*lab*ncE*	0.4	0.15	j05g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.51	3.82	13.07
*LAB*LABa*	60.51	4.13	10.67
*LAB*TCHa*	52.5	11.44	68.82

CIELAB relative:

*lab*lab*	0.549	0.054	0.14
*lab*tch*	0.525	0.15	0.191
*lab*nch*	0.4	0.15	0.191

Natural Colour (NC) relative:

*lab*lrj*	0.549	0.079	0.128
*lab*tce*	0.525	0.15	0.162
*lab*ncE*	0.4	0.15	r64j

All data for the colour R50J’

R50J’

LAB*Fa: 60.51, 4.13, 10.67
LCH*Fa: 60.51, 11.44, 68.82

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

LAB*Sa: 88.85, 6.89, 17.78
LCH*Sa: 88.85, 19.07, 68.82

LAB*Qa: 31.96, 7.52, 19.4
LCH*Qa: 31.96, 20.81, 68.82

LAB*Xa: 80.97, 15.16, 39.12
LCH*Xa: 80.97, 41.96, 68.82

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	57.77	−9.68	7.46
*LAB*LABa*	57.77	−9.42	5.24
*LAB*TCHa*	52.5	10.79	150.91

CIELAB relative:

*lab*lab*	0.514	−0.13	0.073
*lab*tch*	0.525	0.15	0.419
*lab*nch*	0.4	0.15	0.419

Natural Colour (NC) relative:

*lab*lrj*	0.514	−0.144	0.038
*lab*tce*	0.525	0.15	0.46
*lab*ncE*	0.4	0.15	j83g

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.162*

*LAB*LABx: 60.51, 4.13, 10.67*

G50B’

Input colours:

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

Elementary hue reference:

CIE−test colours 9 to 12

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	−0.27	2.28
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45

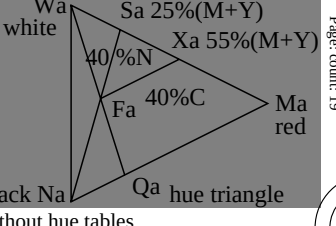
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0

olvi3*Sa: 1.0, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.191
ncw*Sa: 0.0, 0.25, 0.75

olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.191
ncw*Qa: 0.727, 0.273, 0.0

olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.191
ncw*Xa: 0.0, 0.55, 0.45

B50R’



B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.0	4.47	−4.69
*LAB*LABa*	54.0	4.66	−6.65
*LAB*TCHa*	52.5	8.13	305.0

CIELAB relative:

*lab*lab*	0.465	0.086	−0.122
*lab*tch*	0.525	0.15	0.847
*lab*nch*	0.4	0.15	0.847

Natural Colour (NC) relative:

*lab*lrj*	0.465	0.067	−0.133
*lab*tce*	0.525	0.15	0.823
*lab*ncE*	0.4	0.15	b29r

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	57.36	11.03	0.93
*LAB*LABa*	57.36	11.29	−1.24
*LAB*TCHa*	52.5	11.36	353.66

CIELAB relative:

*lab*lab*	0.508	0.149	−0.016
*lab*tch*	0.525	0.15	0.982
*lab*nch*	0.4	0.15	0.982

Natural Colour (NC) relative:

*lab*lrj*	0.508	0.136	−0.063
*lab*tce*	0.525	0.15	0.93
*lab*ncE*	0.4	0.15	b72r

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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

Transfer via: *cmy0*ORS18 setcmykcolor*
output: *no change compared to input*

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E00NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

TLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.16	−7.75	12.8
*LAB*LABa*	56.16	−7.75	12.8
*LAB*TCHa*	52.5	14.97	121.23

CIELAB relative:

*lab*lab*	0.589	−0.077	0.128
*lab*tch*	0.525	0.15	0.337
*lab*nch*	0.4	0.15	0.337

Natural Colour (NC) relative:

*lab*lrj*	0.589	−0.09	0.119
*lab*tce*	0.525	0.15	0.353
*lab*ncE*	0.4	0.15	j41g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.84	−3.1	13.61
*LAB*LABa*	56.84	−3.1	13.61
*LAB*TCHa*	52.5	13.96	102.85

CIELAB relative:

*lab*lab*	0.596	−0.032	0.146
*lab*tch*	0.525	0.15	0.286
*lab*nch*	0.4	0.15	0.286

Natural Colour (NC) relative:

*lab*lrj*	0.596	−0.034	0.146
*lab*tce*	0.525	0.15	0.288
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	53.68	4.22	11.65
*LAB*LABa*	53.68	4.22	11.65
*LAB*TCHa*	52.5	12.39	70.1

CIELAB relative:

*lab*lab*	0.563	0.051	0.141
*lab*tch*	0.525	0.15	0.195
*lab*nch*	0.4	0.15	0.195

Natural Colour (NC) relative:

*lab*lrj*	0.563	0.075	0.13
*lab*tce*	0.525	0.15	0.167
*lab*ncE*	0.4	0.15	r66j

All data for the colour R50J’

R50J’

LAB*Fa: 53.68, 4.22, 11.65
LCH*Fa: 53.68, 12.39, 70.1

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

LAB*Sa: 89.45, 7.03, 19.41
LCH*Sa: 89.45, 20.65, 70.1

LAB*Qa: 19.53, 7.67, 21.18
LCH*Qa: 19.53, 22.52, 70.1

LAB*Xa: 82.3, 15.46, 42.71
LCH*Xa: 82.3, 45.42, 70.1

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	55.48	−12.4	11.99
*LAB*LABa*	55.48	−12.4	11.99
*LAB*TCHa*	52.5	17.26	136.01

CIELAB relative:

*lab*lab*	0.581	−0.107	0.104
*lab*tch*	0.525	0.15	0.378
*lab*nch*	0.4	0.15	0.378

Natural Colour (NC) relative:

*lab*lrj*	0.581	−0.124	0.083
*lab*tce*	0.525	0.15	0.406
*lab*ncE*	0.4	0.15	j62g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	50.1	0.0	0.0
*LAB*LABa*	50.1	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	50.51	11.54	9.68
*LAB*LABa*	50.51	11.54	9.68
*LAB*TCHa*	52.5	15.06	40.0

CIELAB relative:

*lab*lab*	0.529	0.115	0.096
*lab*tch*	0.525	0.15	0.111
*lab*nch*	0.4	0.15	0.111

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.141	0.05
*lab*tce*	0.525	0.15	0.054
*lab*ncE*	0.4	0.15	r21j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.195
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.195
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.195
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.195
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.167*

*LAB*LABx: 53.68, 4.22, 11.65*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	55.97	−6.92	−2.02
*LAB*LABa*	55.97	−6.92	−2.02
*LAB*TCHa*	52.5	7.22	196.37

CIELAB relative:

*lab*lab*	0.587	−0.143	−0.041
*lab*tch*	0.525	0.15	0.545
*lab*nch*	0.4	0.15	0.545

Natural Colour (NC) relative:

*lab*lrj*	0.587	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	47.5	11.41	−15.53
*LAB*LABa*	47.5	11.41	−15.53
*LAB*TCHa*	52.5	19.28	306.29

CIELAB relative:

*lab*lab*	0.498	0.089	−0.12
*lab*tch*	0.525	0.15	0.851
*lab*nch*	0.4	0.15	0.851

Natural Colour (NC) relative:

*lab*lrj*	0.498	0.069	−0.132
*lab*tce*	0.525	0.15	0.826
*lab*ncE*	0.4	0.15	b30r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	51.53	14.15	−8.75
*LAB*LABa*	51.53	14.15	−8.75
*LAB*TCHa*	52.5	16.65	328.23

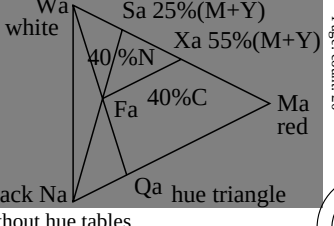
CIELAB relative:

*lab*lab*	0.54	0.128	−0.078
*lab*tch*	0.525	0.15	0.912
*lab*nch*	0.4	0.15	0.912

Natural Colour (NC) relative:

*lab*lrj*	0.54	0.106	−0.106
*lab*tce*	0.525	0.15	0.874
*lab*ncE*	0.4	0.15	b49r

B50R’



G50J’ B’ B50R’

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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E01NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

DRSxx

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	60.35	−7.61	12.48	
*LAB*LABa*	60.35	−6.9	10.12	
*LAB*TCHa*	52.5	12.26	124.32	
CIELAB relative:				
*lab*lab*	0.549	−0.084	0.124	
*lab*tch*	0.525	0.15	0.345	
*lab*nch*	0.4	0.15	0.345	
Natural Colour (NC) relative:				
*lab*lrj*	0.549	−0.098	0.113	
*lab*tce*	0.525	0.15	0.364	
*lab*ncE*	0.4	0.15	j45g	

J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	63.51	−3.12	18.03	
*LAB*LABa*	63.51	−2.47	15.65	
*LAB*TCHa*	52.5	15.84	99.0	
CIELAB relative:				
*lab*lab*	0.589	−0.022	0.148	
*lab*tch*	0.525	0.15	0.275	
*lab*nch*	0.4	0.15	0.275	
Natural Colour (NC) relative:				
*lab*lrj*	0.589	−0.021	0.148	
*lab*tce*	0.525	0.15	0.274	
*lab*ncE*	0.4	0.15	j09g	

R50J’

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	59.9	3.06	13.97	
*LAB*LABa*	59.9	3.77	11.62	
*LAB*TCHa*	52.5	12.22	72.01	
CIELAB relative:				
*lab*lab*	0.543	0.046	0.143	
*lab*tch*	0.525	0.15	0.2	
*lab*nch*	0.4	0.15	0.2	
Natural Colour (NC) relative:				
*lab*lrj*	0.543	0.069	0.133	
*lab*tce*	0.525	0.15	0.174	
*lab*ncE*	0.4	0.15	r69j	

All data for the colour R50J’

R50J’

LAB*Fa: 59.9, 3.77, 11.62
LCH*Fa: 59.9, 12.22, 72.01

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

LAB*Sa: 88.8, 6.29, 19.37
LCH*Sa: 88.8, 20.36, 72.01

LAB*Qa: 30.12, 6.86, 21.13
LCH*Qa: 30.12, 22.21, 72.01

LAB*Xa: 79.79, 13.83, 42.61
LCH*Xa: 79.79, 44.8, 72.01

G’

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	57.2	−12.09	6.93	
*LAB*LABa*	57.2	−11.34	4.6	
*LAB*TCHa*	52.5	12.24	157.94	
CIELAB relative:				
*lab*lab*	0.51	−0.138	0.056	
*lab*tch*	0.525	0.15	0.439	
*lab*nch*	0.4	0.15	0.439	
Natural Colour (NC) relative:				
*lab*lrj*	0.51	−0.148	0.014	
*lab*tce*	0.525	0.15	0.485	
*lab*ncE*	0.4	0.15	j93g	

Inform. Techn. (IT) relative:				
*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475
CIELAB absolute:				
*LAB*LAB*	58.43	−0.73	2.34	
*LAB*LABa*	58.43	0.0	0.0	
*LAB*TCHa*	52.5	0.0	−	
CIELAB relative:				
*lab*lab*	0.525	0.0	0.0	
*lab*tch*	0.525	0.0	−	
*lab*nch*	0.475	0.0	−	
Natural Colour (NC) relative:				
*lab*lrj*	0.525	0.0	0.0	
*lab*tce*	0.525	0.0	−	
*lab*ncE*	0.475	0.0	−	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4
CIELAB absolute:				
*LAB*LAB*	56.3	9.25	9.92	
*LAB*LABa*	56.3	10.02	7.59	
*LAB*TCHa*	52.5	12.57	37.14	
CIELAB relative:				
*lab*lab*	0.498	0.12	0.091	
*lab*tch*	0.525	0.15	0.103	
*lab*nch*	0.4	0.15	0.103	
Natural Colour (NC) relative:				
*lab*lrj*	0.498	0.144	0.041	
*lab*tce*	0.525	0.15	0.044	
*lab*ncE*	0.4	0.15	r17j	

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.2
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.2
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.2
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.2
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.174*

*LAB*LABx: 59.9, 3.77, 11.62*

G50B’

Input colours:

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

Elementary hue reference:

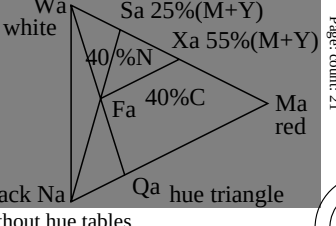
CIE−test colours 9 to 12

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	57.98	−5.74	−4.78	
*LAB*LABa*	57.98	−4.99	−7.12	
*LAB*TCHa*	52.5	8.71	234.93	
CIELAB relative:				
*lab*lab*	0.519	−0.085	−0.122	
*lab*tch*	0.525	0.15	0.653	
*lab*nch*	0.4	0.15	0.653	
Natural Colour (NC) relative:				
*lab*lrj*	0.519	−0.075	−0.129	
*lab*tce*	0.525	0.15	0.666	
*lab*ncE*	0.4	0.15	g66b	

Inform. Techn. (IT) relative:				
*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	55.09	−0.92	−4.65	
*LAB*LABa*	55.09	−0.13	−6.98	
*LAB*TCHa*	52.5	6.99	268.86	
CIELAB relative:				
*lab*lab*	0.483	−0.002	−0.149	
*lab*tch*	0.525	0.15	0.747	
*lab*nch*	0.4	0.15	0.747	
Natural Colour (NC) relative:				
*lab*lrj*	0.483	−0.005	−0.149	
*lab*tce*	0.525	0.15	0.743	
*lab*ncE*	0.4	0.15	g97b	

Inform. Techn. (IT) relative:				
*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4
CIELAB absolute:				
*LAB*LAB*	56.37	11.08	2.04	
*LAB*LABa*	56.37	11.85	−0.28	
*LAB*TCHa*	52.5	11.85	358.58	
CIELAB relative:				
*lab*lab*	0.499	0.15	−0.003	
*lab*tch*	0.525	0.15	0.996	
*lab*nch*	0.4	0.15	0.996	
Natural Colour (NC) relative:				
*lab*lrj*	0.499	0.14	−0.053	
*lab*tce*	0.525	0.15	0.941	
*lab*ncE*	0.4	0.15	b76r	

B50R’



J50G’ J’ R50J’ G’ G50B’ G50J’ B’ 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

Test chart ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E02NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

equivalent colorimetric colour coordinates

System:

TLS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	63.39	−7.42	11.94
*LAB*LABa*	63.39	−7.42	11.94
*LAB*TCHa*	52.5	14.07	121.9

CIELAB relative:

*lab*lab*	0.586	−0.078	0.127
*lab*tch*	0.525	0.15	0.339
*lab*nch*	0.4	0.15	0.339

Natural Colour (NC) relative:

*lab*lrj*	0.586	−0.092	0.118
*lab*tce*	0.525	0.15	0.356
*lab*ncE*	0.4	0.15	j42g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	64.05	−3.0	12.77
*LAB*LABa*	64.05	−3.0	12.77
*LAB*TCHa*	52.5	13.12	103.25

CIELAB relative:

*lab*lab*	0.595	−0.033	0.146
*lab*tch*	0.525	0.15	0.287
*lab*nch*	0.4	0.15	0.287

Natural Colour (NC) relative:

*lab*lrj*	0.595	−0.036	0.145
*lab*tce*	0.525	0.15	0.289
*lab*ncE*	0.4	0.15	j15g

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	61.05	3.88	10.15
*LAB*LABa*	61.05	3.88	10.15
*LAB*TCHa*	52.5	10.86	69.07

CIELAB relative:

*lab*lab*	0.556	0.054	0.14
*lab*tch*	0.525	0.15	0.192
*lab*nch*	0.4	0.15	0.192

Natural Colour (NC) relative:

*lab*lrj*	0.556	0.078	0.128
*lab*tce*	0.525	0.15	0.163
*lab*ncE*	0.4	0.15	r65j

All data for the colour R50J’

R50J’

LAB*Fa: 61.05, 3.88, 10.15
LCH*Fa: 61.05, 10.86, 69.07

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

LAB*Sa: 89.74, 6.47, 16.91
LCH*Sa: 89.74, 18.11, 69.07

LAB*Qa: 32.93, 7.06, 18.45
LCH*Qa: 32.93, 19.75, 69.07

LAB*Xa: 82.93, 14.23, 37.21
LCH*Xa: 82.93, 39.84, 69.07

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	62.74	−11.85	11.12
*LAB*LABa*	62.74	−11.85	11.12
*LAB*TCHa*	52.5	16.26	136.86

CIELAB relative:

*lab*lab*	0.578	−0.108	0.103
*lab*tch*	0.525	0.15	0.38
*lab*nch*	0.4	0.15	0.38

Natural Colour (NC) relative:

*lab*lrj*	0.578	−0.125	0.081
*lab*tce*	0.525	0.15	0.409
*lab*ncE*	0.4	0.15	j63g

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	–

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	–
*lab*nch*	0.475	0.0	–

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	–
*lab*ncE*	0.475	0.0	–

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.04	10.77	7.53
*LAB*LABa*	58.04	10.77	7.53
*LAB*TCHa*	52.5	13.14	34.95

CIELAB relative:

*lab*lab*	0.517	0.123	0.086
*lab*tch*	0.525	0.15	0.097
*lab*nch*	0.4	0.15	0.097

Natural Colour (NC) relative:

*lab*lrj*	0.517	0.146	0.033
*lab*tce*	0.525	0.15	0.035
*lab*ncE*	0.4	0.15	r14j

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.192
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.192
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.192
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.192
ncw*Xa: 0.0, 0.55, 0.45

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.163*

*LAB*LABx: 61.05, 3.88, 10.15*

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**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	63.21	−6.66	−1.96
*LAB*LABa*	63.21	−6.66	−1.96
*LAB*TCHa*	52.5	6.95	196.46

CIELAB relative:

*lab*lab*	0.584	−0.143	−0.042
*lab*tch*	0.525	0.15	0.546
*lab*nch*	0.4	0.15	0.546

Natural Colour (NC) relative:

*lab*lrj*	0.584	−0.131	−0.07
*lab*tce*	0.525	0.15	0.578
*lab*ncE*	0.4	0.15	g31b

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	54.9	3.7	−5.62
*LAB*LABa*	54.9	3.7	−5.62
*LAB*TCHa*	52.5	6.74	303.29

CIELAB relative:

*lab*lab*	0.477	0.082	−0.124
*lab*tch*	0.525	0.15	0.842
*lab*nch*	0.4	0.15	0.842

Natural Colour (NC) relative:

*lab*lrj*	0.477	0.063	−0.135
*lab*tce*	0.525	0.15	0.819
*lab*ncE*	0.4	0.15	b27r

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	58.98	13.42	−2.91
*LAB*LABa*	58.98	13.42	−2.91
*LAB*TCHa*	52.5	13.74	347.72

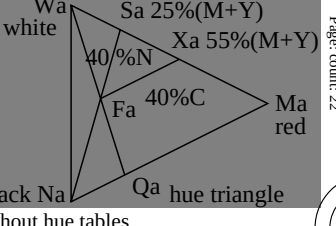
CIELAB relative:

*lab*lab*	0.529	0.147	−0.031
*lab*tch*	0.525	0.15	0.966
*lab*nch*	0.4	0.15	0.966

Natural Colour (NC) relative:

*lab*lrj*	0.529	0.13	−0.074
*lab*tce*	0.525	0.15	0.917
*lab*ncE*	0.4	0.15	b66r

B50R’



G50J’ B’ 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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

See for similar files: http://www.ps.bam.de/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E03NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 4/6, Serie: 4/4, Page: 4 Page: count: 22

equivalent colorimetric colour coordinates

System:

SLS00

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

J50G’

Inform. Techn. (IT) relative:			
*olvi3**	0.525	0.6	0.45 (1.0)
*cmyn3**	0.475	0.4	0.55 (0.0)
*olvi4**	0.875	1.0	0.75 0.6
*cmyn4**	0.125	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	52.5	−6.49	11.25
*LAB*LABa*	52.5	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0
CIELAB relative:			
*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333
Natural Colour (NC) relative:			
*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.6	0.45 (1.0)
*cmyn3**	0.4	0.4	0.55 (0.0)
*olvi4**	1.0	1.0	0.75 0.6
*cmyn4**	0.0	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	55.0	0.0	15.0
*LAB*LABa*	55.0	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0
CIELAB relative:			
*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25
Natural Colour (NC) relative:			
*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.525	0.45 (1.0)
*cmyn3**	0.4	0.475	0.55 (0.0)
*olvi4**	1.0	0.875	0.75 0.6
*cmyn4**	0.0	0.125	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	52.5	6.5	11.25
*LAB*LABa*	52.5	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0
CIELAB relative:			
*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167
Natural Colour (NC) relative:			
*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 52.5, 6.5, 11.25
LCH*Fa: 52.5, 12.99, 60.0

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

LAB*Sa: 87.5, 10.82, 18.75
LCH*Sa: 87.5, 21.65, 60.0

LAB*Qa: 13.64, 11.81, 20.45
LCH*Qa: 13.64, 23.62, 60.0

LAB*Xa: 72.5, 23.82, 41.25
LCH*Xa: 72.5, 47.63, 60.0

G’

Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.6	0.45 (1.0)
*cmyn3**	0.55	0.4	0.55 (0.0)
*olvi4**	0.75	1.0	0.75 0.6
*cmyn4**	0.25	0.0	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	50.0	−12.98	7.5
*LAB*LABa*	50.0	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0
CIELAB relative:			
*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417
Natural Colour (NC) relative:			
*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.129*

*LAB*LABx: 52.5, 6.5, 11.25*

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

G50B’

Input colours:

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

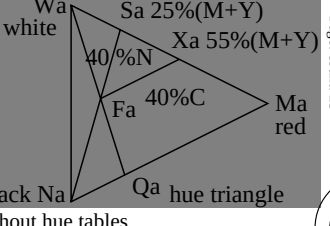
Elementary hue reference:

CIE−test colours 9 to 12

Inform. Techn. (IT) relative:			
*olvi3**	0.525	0.525	0.525 (1.0)
*cmyn3**	0.475	0.475	0.475 (0.0)
*olvi4**	1.0	1.0	1.0 0.525
*cmyn4**	0.0	0.0	0.0 0.475
CIELAB absolute:			
*LAB*LAB*	52.5	0.0	0.0
*LAB*LABa*	52.5	0.0	0.0
*LAB*TCHa*	52.5	0.0	−
CIELAB relative:			
*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−
Natural Colour (NC) relative:			
*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.45	0.45 (1.0)
*cmyn3**	0.4	0.55	0.55 (0.0)
*olvi4**	1.0	0.75	0.75 0.6
*cmyn4**	0.0	0.25	0.25 0.4
CIELAB absolute:			
*LAB*LAB*	50.0	12.99	7.5
*LAB*LABa*	50.0	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0
CIELAB relative:			
*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083
Natural Colour (NC) relative:			
*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

B50R’



Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.6	0.6 (1.0)
*cmyn3**	0.55	0.4	0.4 (0.0)
*olvi4**	0.75	1.0	1.0 0.6
*cmyn4**	0.25	0.0	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	55.0	−12.98	−7.49
*LAB*LABa*	55.0	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0
CIELAB relative:			
*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583
Natural Colour (NC) relative:			
*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

Inform. Techn. (IT) relative:			
*olvi3**	0.45	0.45	0.6 (1.0)
*cmyn3**	0.55	0.55	0.4 (0.0)
*olvi4**	0.75	0.75	1.0 0.6
*cmyn4**	0.25	0.25	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	50.0	0.0	−14.99
*LAB*LABa*	50.0	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0
CIELAB relative:			
*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75
Natural Colour (NC) relative:			
*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

Inform. Techn. (IT) relative:			
*olvi3**	0.6	0.45	0.6 (1.0)
*cmyn3**	0.4	0.55	0.4 (0.0)
*olvi4**	1.0	0.75	1.0 0.6
*cmyn4**	0.0	0.25	0.0 0.4
CIELAB absolute:			
*LAB*LAB*	55.0	12.99	−7.49
*LAB*LABa*	55.0	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0
CIELAB relative:			
*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917
Natural Colour (NC) relative:			
*lab*lrj*	0.55	0.108	−0.103
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r

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 ME47: 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/ME47/
Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E04NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

/ME47/ Form: 5/6, Serie: 4/4, Page: 5 Page: count: 23

equivalent colorimetric colour coordinates

System:

SRS18

J50G’

olvi3*Fa: 0.6, 0.525, 0.45, 1.0
cmyn3*Fa: 0.4, 0.475, 0.55,
olvi4*Fa: 1.0, 0.875, 0.75, 0.6
cmyn4*Fa: 0.0, 0.125, 0.25, 0.4

G’

PS colour operator output:

left: *olvi3* (rgb) setrgbcolor*

top: *cmyn3* setcmykcolor*

right: *cmyn4* setcmykcolor*

*bottom: lab*nce setcolor*

*lab*nce: 0.4, 0.15, 0.129*

*LAB*LABx: 58.65, 6.5, 11.25*

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**	0.525	0.6	0.45	(1.0)
*cmyn3**	0.475	0.4	0.55	(0.0)
*olvi4**	0.875	1.0	0.75	0.6
*cmyn4**	0.125	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	−6.49	11.25
*LAB*LABa*	58.65	−6.49	11.25
*LAB*TCHa*	52.5	12.99	120.0

CIELAB relative:

*lab*lab*	0.525	−0.074	0.13
*lab*tch*	0.525	0.15	0.333
*lab*nch*	0.4	0.15	0.333

Natural Colour (NC) relative:

*lab*lrj*	0.525	−0.086	0.122
*lab*tce*	0.525	0.15	0.349
*lab*ncE*	0.4	0.15	j39g

J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.6	0.45	(1.0)
*cmyn3**	0.4	0.4	0.55	(0.0)
*olvi4**	1.0	1.0	0.75	0.6
*cmyn4**	0.0	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	60.58	0.0	15.0
*LAB*LABa*	60.58	0.0	15.0
*LAB*TCHa*	52.5	15.0	90.0

CIELAB relative:

*lab*lab*	0.55	0.0	0.15
*lab*tch*	0.525	0.15	0.25
*lab*nch*	0.4	0.15	0.25

Natural Colour (NC) relative:

*lab*lrj*	0.55	0.008	0.15
*lab*tce*	0.525	0.15	0.241
*lab*ncE*	0.4	0.15	r96j

R50J’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.525	0.45	(1.0)
*cmyn3**	0.4	0.475	0.55	(0.0)
*olvi4**	1.0	0.875	0.75	0.6
*cmyn4**	0.0	0.125	0.25	0.4

CIELAB absolute:

*LAB*LAB*	58.65	6.5	11.25
*LAB*LABa*	58.65	6.5	11.25
*LAB*TCHa*	52.5	12.99	60.0

CIELAB relative:

*lab*lab*	0.525	0.075	0.13
*lab*tch*	0.525	0.15	0.167
*lab*nch*	0.4	0.15	0.167

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.103	0.109
*lab*tce*	0.525	0.15	0.129
*lab*ncE*	0.4	0.15	r51j

All data for the colour R50J’

R50J’

LAB*Fa: 58.65, 6.5, 11.25
LCH*Fa: 58.65, 12.99, 60.0

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

LAB*Sa: 85.74, 10.82, 18.75
LCH*Sa: 85.74, 21.65, 60.0

LAB*Qa: 28.56, 11.81, 20.45
LCH*Qa: 28.56, 23.62, 60.0

LAB*Xa: 74.12, 23.82, 41.25
LCH*Xa: 74.12, 47.63, 60.0

R’

olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.167
ncw*Fa: 0.4, 0.15, 0.45
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, 0.875, 0.75,
tch*Sa: 0.875, 0.25, 0.167
ncw*Sa: 0.0, 0.25, 0.75
olvi3*Qa: 0.273, 0.136, 0.0,
tch*Qa: 0.136, 0.273, 0.167
ncw*Qa: 0.727, 0.273, 0.0
olvi3*Xa: 1.0, 0.725, 0.45,
tch*Xa: 0.725, 0.55, 0.167
ncw*Xa: 0.0, 0.55, 0.45

G’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.45	(1.0)
*cmyn3**	0.55	0.4	0.55	(0.0)
*olvi4**	0.75	1.0	0.75	0.6
*cmyn4**	0.25	0.0	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	−12.98	7.5
*LAB*LABa*	56.71	−12.98	7.5
*LAB*TCHa*	52.5	15.0	150.0

CIELAB relative:

*lab*lab*	0.5	−0.129	0.075
*lab*tch*	0.525	0.15	0.417
*lab*nch*	0.4	0.15	0.417

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.143	0.041
*lab*tce*	0.525	0.15	0.456
*lab*ncE*	0.4	0.15	j82g

B’

Inform. Techn. (IT) relative:

*olvi3**	0.525	0.525	0.525	(1.0)
*cmyn3**	0.475	0.475	0.475	(0.0)
*olvi4**	1.0	1.0	1.0	0.525
*cmyn4**	0.0	0.0	0.0	0.475

CIELAB absolute:

*LAB*LAB*	58.65	0.0	0.0
*LAB*LABa*	58.65	0.0	0.0
*LAB*TCHa*	52.5	0.0	−

CIELAB relative:

*lab*lab*	0.525	0.0	0.0
*lab*tch*	0.525	0.0	−
*lab*nch*	0.475	0.0	−

Natural Colour (NC) relative:

*lab*lrj*	0.525	0.0	0.0
*lab*tce*	0.525	0.0	−
*lab*ncE*	0.475	0.0	−

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.45	(1.0)
*cmyn3**	0.4	0.55	0.55	(0.0)
*olvi4**	1.0	0.75	0.75	0.6
*cmyn4**	0.0	0.25	0.25	0.4

CIELAB absolute:

*LAB*LAB*	56.71	12.99	7.5
*LAB*LABa*	56.71	12.99	7.5
*LAB*TCHa*	52.5	15.0	30.0

CIELAB relative:

*lab*lab*	0.5	0.13	0.075
*lab*tch*	0.525	0.15	0.083
*lab*nch*	0.4	0.15	0.083

Natural Colour (NC) relative:

*lab*lrj*	0.5	0.149	0.016
*lab*tce*	0.525	0.15	0.017
*lab*ncE*	0.4	0.15	r06j

G50J’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.6	0.6	(1.0)
*cmyn3**	0.55	0.4	0.4	(0.0)
*olvi4**	0.75	1.0	1.0	0.6
*cmyn4**	0.25	0.0	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	−12.98	−7.49
*LAB*LABa*	60.58	−12.98	−7.49
*LAB*TCHa*	52.5	15.0	210.0

CIELAB relative:

*lab*lab*	0.55	−0.129	−0.074
*lab*tch*	0.525	0.15	0.583
*lab*nch*	0.4	0.15	0.583

Natural Colour (NC) relative:

*lab*lrj*	0.55	−0.115	−0.094
*lab*tce*	0.525	0.15	0.609
*lab*ncE*	0.4	0.15	g43b

B’

Inform. Techn. (IT) relative:

*olvi3**	0.45	0.45	0.6	(1.0)
*cmyn3**	0.55	0.55	0.4	(0.0)
*olvi4**	0.75	0.75	1.0	0.6
*cmyn4**	0.25	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	56.71	0.0	−14.99
*LAB*LABa*	56.71	0.0	−14.99
*LAB*TCHa*	52.5	15.0	270.0

CIELAB relative:

*lab*lab*	0.5	0.0	−0.149
*lab*tch*	0.525	0.15	0.75
*lab*nch*	0.4	0.15	0.75

Natural Colour (NC) relative:

*lab*lrj*	0.5	−0.003	−0.149
*lab*tce*	0.525	0.15	0.746
*lab*ncE*	0.4	0.15	g98b

B50R’

Inform. Techn. (IT) relative:

*olvi3**	0.6	0.45	0.6	(1.0)
*cmyn3**	0.4	0.55	0.4	(0.0)
*olvi4**	1.0	0.75	1.0	0.6
*cmyn4**	0.0	0.25	0.0	0.4

CIELAB absolute:

*LAB*LAB*	60.58	12.99	−7.49
*LAB*LABa*	60.58	12.99	−7.49
*LAB*TCHa*	52.5	15.0	330.0

CIELAB relative:

*lab*lab*	0.55	0.13	−0.074
*lab*tch*	0.525	0.15	0.917
*lab*nch*	0.4	0.15	0.917

Natural Colour (NC) relative:

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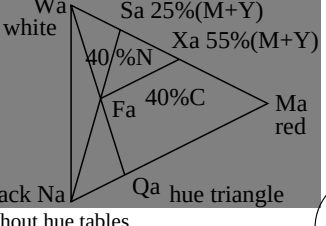
*lab*tce*	0.525	0.15	0.878
*lab*ncE*	0.4	0.15	b51r



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 ME47: Elementary colours RJGB’ (prime)
Approximation: 4 Elementary and 4 intermediate colours

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

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Technical information: http://www.ps.bam.de Version 3.0, io=1,1

BAM registration: 20050101-ME47/10L/L47E05NP.PS/.PDF
application for measurement of printer or monitor systems

BAM material: code=rha4ta

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