

equivalent
colorimetric
colour coordinates

System:

ORS18

J50G'

olvi3*Fa: 0.6, 0.555, 0.51, 1.0
cmyn3*Fa: 0.4, 0.445, 0.49, 0.4
olvi4*Fa: 1.0, 0.925, 0.85, 0.6
cmyn4*Fa: 0.0, 0.075, 0.15, 0.4

olvi3**Fa: 0.6, 0.555, 0.51, 1.0
cmyn3**Fa: 0.4, 0.445, 0.49, 0.4
olvi4**Fa: 1.0, 0.93, 0.85, 0.6
cmyn4**Fa: 0.0, 0.07, 0.15, 0.4

abpe3*: 0.045, 0.045, 0.481, 0.184
tq3*: isect: 0.555, 0.519, 0.816, 3.0

G'

PS colour operator output:

left: olvi3* (rgb) setrgbcolor

top: cmyn3* setcmymcolor

right: cmyn4* setcmymcolor

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* 0.555 0.6 0.51 (1.0)
cmyn3* 0.445 0.4 0.49 (0.0)
olvi4* 0.925 1.0 0.85 0.6
cmyn4* 0.075 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 -5.8 11.92
LAB*LABx 60.51 -5.47 9.5
LAB*TCa 52.5 10.97 119.98

CIELAB relative:
lab*lab 0.552 -0.074 0.13
lab*rch 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*rc 0.525 0.15 0.349
lab*ncc 0.4 0.15 0.39g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.51 (1.0)
cmyn3* 0.49 0.4 0.49 (0.0)
olvi4* 0.85 1.0 0.85 0.6
cmyn4* 0.15 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 58.65 -9.68 7.46
LAB*LABx 57.77 -9.42 5.24
LAB*TCa 52.5 10.79 150.91

CIELAB relative:
lab*lab 0.514 -0.13 0.073
lab*rch 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*rc 0.525 0.15 0.46
lab*ncc 0.4 0.15 0.83g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.6 (1.0)
cmyn3* 0.49 0.4 0.4 (0.0)
olvi4* 0.85 1.0 1.0 0.6
cmyn4* 0.15 0.0 0.0 0.4

CIELAB absolute:
LAB*LAB 58.93 -4.83 -4.45
LAB*LABx 58.93 -4.54 -6.74
LAB*TCa 52.5 8.14 236.02

CIELAB relative:
lab*lab 0.529 -0.083 -0.123
lab*rch 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*rc 0.525 0.15 0.668
lab*ncc 0.4 0.15 0.67b

G50J'

J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.6 0.51 (1.0)
cmyn3* 0.4 0.4 0.49 (0.0)
olvi4* 1.0 1.0 0.85 0.6
cmyn4* 0.0 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 63.69 -1.91 16.38
LAB*LABx 63.69 -1.53 13.76
LAB*TCa 52.5 13.85 96.38

CIELAB relative:
lab*lab 0.59 -0.016 0.149
lab*rch 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*rc 0.525 0.15 0.265
lab*ncc 0.4 0.15 0.59g

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*LABx 58.65 0.0 0.0
LAB*TCa 52.5 0.0 -

CIELAB relative:
lab*lab 0.525 0.0 0.0
lab*rch 0.525 0.15 0.105
lab*nch 0.475 0.0 -

Natural Colour (NC) relative:
lab*lrj 0.525 0.0 0.0
lab*rc 0.525 0.0 -
lab*ncc 0.475 0.0 -

Inform. Techn. (IT) relative:
olvi3* 0.51 0.51 0.6 (1.0)
cmyn3* 0.49 0.49 0.4 (0.0)
olvi4* 0.85 0.85 1.0 0.6
cmyn4* 0.15 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 54.0 4.47 -4.69
LAB*LABx 54.0 4.66 -6.65
LAB*TCa 52.5 8.13 305.0

CIELAB relative:
lab*lab 0.465 0.086 -0.122
lab*rch 0.525 0.15 0.847
lab*nch 0.4 0.15 0.847

Natural Colour (NC) relative:
lab*lrj 0.465 0.096 -0.33
lab*rc 0.525 0.15 0.823
lab*ncc 0.4 0.15 0.29r

B'

R50J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.555 0.51 (1.0)
cmyn3* 0.4 0.445 0.49 (0.0)
olvi4* 1.0 0.925 0.85 0.6
cmyn4* 0.0 0.075 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 3.82 13.07
LAB*LABx 60.51 4.13 10.67
LAB*TCa 52.5 11.44 68.82

CIELAB relative:
lab*lab 0.549 0.054 0.14
lab*rch 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*rc 0.525 0.15 0.162
lab*ncc 0.4 0.15 0.64g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.51 (1.0)
cmyn3* 0.4 0.49 0.49 (0.0)
olvi4* 1.0 0.85 0.85 0.6
cmyn4* 0.0 0.15 0.15 0.4

CIELAB absolute:
LAB*LAB 55.5 9.55 9.76
LAB*LABx 57.33 9.81 7.58
LAB*TCa 52.5 12.39 37.69

CIELAB relative:
lab*lab 0.508 0.119 0.092
lab*rch 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*rc 0.525 0.15 0.046
lab*ncc 0.4 0.15 0.18g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.6 (1.0)
cmyn3* 0.4 0.49 0.4 (0.0)
olvi4* 1.0 0.85 1.0 0.6
cmyn4* 0.0 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 57.36 11.03 0.93
LAB*LABx 57.36 11.29 -1.24
LAB*TCa 52.5 11.36 353.66

CIELAB relative:
lab*lab 0.508 0.149 -0.016
lab*rch 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*rc 0.525 0.15 0.93
lab*ncc 0.4 0.15 0.72r

B50R'

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
rch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45

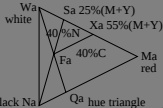
olvi3*Ma: 1.0, 0.5, 0.0
rch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0

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

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

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

B50R'



black Na

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

Transfer via: cmy0*ORS18 setcmymcolor
output: cmyn4* setcmymcolor

equivalent
colorimetric
colour coordinates

System:

ORS18

J50G'

olvi3*Fa: 0.6, 0.555, 0.51, 1.0
cmyn3*Fa: 0.4, 0.445, 0.49, 0.4
olvi4*Fa: 1.0, 0.925, 0.85, 0.6
cmyn4*Fa: 0.0, 0.075, 0.15, 0.4

olvi3**Fa: 0.6, 0.555, 0.51, 1.0
cmyn3**Fa: 0.4, 0.445, 0.49, 0.4
olvi4**Fa: 1.0, 0.93, 0.85, 0.6
cmyn4**Fa: 0.0, 0.07, 0.15, 0.4

abpe3*: 0.045, 0.045, 0.481, 0.184
tq3*: isect: 0.555, 0.519, 0.816, 3.0

G'

PS colour operator output:

left: olvi3* (rgb) setrgbcolor

top: cmyn3* setcmymcolor

right: cmyn4* setcmymcolor

bottom: LAB*LCH setcolor

LAB*LCH*: 60.51, 11.44, 68.82

LAB*LAB*: 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* 0.555 0.6 0.51 (1.0)
cmyn3* 0.445 0.4 0.49 (0.0)
olvi4* 0.925 1.0 0.85 0.6
cmyn4* 0.075 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 -5.8 11.92
LAB*LABa 60.51 -5.47 9.5
LAB*LABb 60.51 10.97 119.98

CIELAB relative:
lab*lab 0.552 -0.074 0.13
lab*ch 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*lce 0.525 0.15 0.349
lab*nce 0.4 0.15 0.39g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.51 (1.0)
cmyn3* 0.49 0.4 0.49 (0.0)
olvi4* 0.85 1.0 0.85 0.6
cmyn4* 0.15 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 58.65 -9.68 7.46
LAB*LABa 58.65 -9.42 5.24
LAB*LABb 58.65 10.79 150.91

CIELAB relative:
lab*lab 0.514 -0.13 0.073
lab*ch 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*lce 0.525 0.15 0.46
lab*nce 0.4 0.15 0.83g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.6 (1.0)
cmyn3* 0.49 0.4 0.4 (0.0)
olvi4* 0.85 1.0 1.0 0.6
cmyn4* 0.15 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*LABb 58.93 8.14 236.02

CIELAB relative:
lab*lab 0.529 -0.083 -0.123
lab*ch 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*lce 0.525 0.15 0.668
lab*nce 0.4 0.15 0.67b

G50J'

J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.6 0.51 (1.0)
cmyn3* 0.4 0.4 0.49 (0.0)
olvi4* 1.0 1.0 0.85 0.6
cmyn4* 0.0 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 63.69 -1.91 16.38
LAB*LABa 63.69 -1.53 13.76
LAB*LABb 63.69 13.85 96.38

CIELAB relative:
lab*lab 0.59 -0.016 0.149
lab*ch 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*lce 0.525 0.15 0.265
lab*nce 0.4 0.15 0.50g

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*LABb 58.65 0.0 -

CIELAB relative:
lab*lab 0.525 0.0 0.0
lab*ch 0.525 0.15 0.105
lab*nch 0.475 0.0 -

Natural Colour (NC) relative:
lab*lrj 0.525 0.0 0.0
lab*lce 0.525 0.0 -
lab*nce 0.475 0.0 -

Inform. Techn. (IT) relative:
olvi3* 0.51 0.51 0.6 (1.0)
cmyn3* 0.49 0.49 0.4 (0.0)
olvi4* 0.85 0.85 1.0 0.6
cmyn4* 0.15 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 54.0 4.47 -4.69
LAB*LABa 54.0 4.66 -6.65
LAB*LABb 54.0 8.13 305.0

CIELAB relative:
lab*lab 0.465 0.086 -0.122
lab*ch 0.525 0.15 0.847
lab*nch 0.4 0.15 0.847

Natural Colour (NC) relative:
lab*lrj 0.465 0.096 -0.33
lab*lce 0.525 0.15 0.823
lab*nce 0.4 0.15 0.29r

B'

R50J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.555 0.51 (1.0)
cmyn3* 0.4 0.445 0.49 (0.0)
olvi4* 1.0 0.925 0.85 0.6
cmyn4* 0.0 0.075 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 3.82 13.07
LAB*LABa 60.51 4.13 10.67
LAB*LABb 60.51 11.44 68.82

CIELAB relative:
lab*lab 0.549 0.054 0.14
lab*ch 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*lce 0.525 0.15 0.162
lab*nce 0.4 0.15 0.64g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.51 (1.0)
cmyn3* 0.4 0.49 0.49 (0.0)
olvi4* 1.0 0.85 0.85 0.6
cmyn4* 0.0 0.15 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 9.55 9.76
LAB*LABa 60.51 9.81 7.58
LAB*LABb 60.51 12.39 37.69

CIELAB relative:
lab*lab 0.508 0.119 0.092
lab*ch 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*lce 0.525 0.15 0.046
lab*nce 0.4 0.15 0.18g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.6 (1.0)
cmyn3* 0.4 0.49 0.4 (0.0)
olvi4* 1.0 0.85 1.0 0.6
cmyn4* 0.0 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 57.36 11.03 0.93
LAB*LABa 57.36 11.29 -1.24
LAB*LABb 57.36 11.36 353.66

CIELAB relative:
lab*lab 0.508 0.149 -0.016
lab*ch 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*lce 0.525 0.15 0.93
lab*nce 0.4 0.15 0.72r

B50R'

All data for the colour R50J'

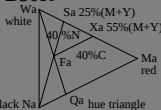
R50J'

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

B50R'



ME500-7.

Approximation of elementary and intermediate colours (8 colours); Device independent colour coordinates LAB*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 setcmymcolor

output: cmyn4* setcmymcolor

equivalent
colorimetric
colour coordinates

System:

ORS18

J50G'

olvi3*Fa: 0.6, 0.555, 0.51, 1.0
cmyn3*Fa: 0.4, 0.445, 0.49, 0.4
olvi4*Fa: 1.0, 0.925, 0.85, 0.6
cmyn4*Fa: 0.0, 0.075, 0.15, 0.4

olvi3**Fa: 0.6, 0.555, 0.51, 1.0
cmyn3**Fa: 0.4, 0.445, 0.49, 0.4
olvi4**Fa: 1.0, 0.93, 0.85, 0.6
cmyn4**Fa: 0.0, 0.07, 0.15, 0.4

abpe3*: 0.045, 0.045, 0.481, 0.184
tq3*: isect: 0.555, 0.519, 0.816, 3.0

G'

PS colour operator output:

left: olvi3* (rgb) setrgbcolor

top: cmyn3* setcmymcolor

right: cmyn4* setcmymcolor

bottom: lab*nych setcolor

lab*nych*: 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* 0.555 0.6 0.51 (1.0)
cmyn3* 0.445 0.4 0.49 (0.0)
olvi4* 0.925 1.0 0.85 0.6
cmyn4* 0.075 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 -5.8 11.92
LAB*LABa 60.51 -5.47 9.5
LAB*LABb 60.51 10.97 119.98

CIELAB relative:
lab*lab 0.552 -0.074 0.13
lab*ach 0.525 0.15 0.333
lab*nych 0.4 0.15 0.333

Natural Colour (NC) relative:
lab*lrj 0.552 -0.086 0.122
lab*nce 0.525 0.15 0.349
lab*nce 0.4 0.15 0.39g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.51 (1.0)
cmyn3* 0.49 0.4 0.49 (0.0)
olvi4* 0.85 1.0 0.85 0.6
cmyn4* 0.15 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 58.65 -9.68 7.46
LAB*LABa 58.65 -9.42 5.24
LAB*LABb 58.65 10.79 150.91

CIELAB relative:
lab*lab 0.514 -0.13 0.073
lab*ach 0.525 0.15 0.419
lab*nych 0.4 0.15 0.419

Natural Colour (NC) relative:
lab*lrj 0.514 -0.144 0.038
lab*nce 0.525 0.15 0.46
lab*nce 0.4 0.15 0.83g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.6 (1.0)
cmyn3* 0.49 0.4 0.4 (0.0)
olvi4* 0.85 1.0 1.0 0.6
cmyn4* 0.15 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*LABb 58.93 8.14 236.02

CIELAB relative:
lab*lab 0.529 -0.083 -0.123
lab*ach 0.525 0.15 0.656
lab*nych 0.4 0.15 0.656

Natural Colour (NC) relative:
lab*lrj 0.529 -0.073 -0.13
lab*nce 0.525 0.15 0.668
lab*nce 0.4 0.15 0.67b

G50J'

J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.6 0.51 (1.0)
cmyn3* 0.4 0.4 0.49 (0.0)
olvi4* 1.0 1.0 0.85 0.6
cmyn4* 0.0 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 63.69 -1.91 16.38
LAB*LABa 63.69 -1.53 13.76
LAB*LABb 63.69 13.85 96.38

CIELAB relative:
lab*lab 0.59 -0.016 0.149
lab*ach 0.525 0.15 0.268
lab*nych 0.4 0.15 0.268

Natural Colour (NC) relative:
lab*lrj 0.59 -0.013 0.149
lab*nce 0.525 0.15 0.265
lab*nce 0.4 0.15 0.50g

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*LABb 58.65 0.0 -

CIELAB relative:
lab*lab 0.525 0.0 0.0
lab*ach 0.525 0.15 0.105
lab*nych 0.475 0.0 -

Natural Colour (NC) relative:
lab*lrj 0.525 0.0 0.0
lab*nce 0.525 0.0 -
lab*nce 0.475 0.0 -

Inform. Techn. (IT) relative:
olvi3* 0.51 0.51 0.6 (1.0)
cmyn3* 0.49 0.49 0.4 (0.0)
olvi4* 0.85 0.85 1.0 0.6
cmyn4* 0.15 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 54.0 4.47 -4.69
LAB*LABa 54.0 4.66 -6.65
LAB*LABb 54.0 8.13 305.0

CIELAB relative:
lab*lab 0.465 0.086 -0.122
lab*ach 0.525 0.15 0.847
lab*nych 0.4 0.15 0.847

Natural Colour (NC) relative:
lab*lrj 0.465 0.067 -0.33
lab*nce 0.525 0.15 0.823
lab*nce 0.4 0.15 0.29r

B'

R50J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.555 0.51 (1.0)
cmyn3* 0.4 0.445 0.49 (0.0)
olvi4* 1.0 0.925 0.85 0.6
cmyn4* 0.0 0.075 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 3.82 13.07
LAB*LABa 60.51 4.13 10.67
LAB*LABb 60.51 11.44 68.82

CIELAB relative:
lab*lab 0.549 0.054 0.14
lab*ach 0.525 0.15 0.191
lab*nych 0.4 0.15 0.191

Natural Colour (NC) relative:
lab*lrj 0.549 0.079 0.128
lab*nce 0.525 0.15 0.162
lab*nce 0.4 0.15 0.64g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.51 (1.0)
cmyn3* 0.4 0.49 0.49 (0.0)
olvi4* 1.0 0.85 0.85 0.6
cmyn4* 0.0 0.15 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 9.55 9.76
LAB*LABa 57.33 9.81 7.58
LAB*LABb 57.33 12.39 37.69

CIELAB relative:
lab*lab 0.508 0.119 0.092
lab*ach 0.525 0.15 0.105
lab*nych 0.4 0.15 0.105

Natural Colour (NC) relative:
lab*lrj 0.508 0.144 0.042
lab*nce 0.525 0.15 0.046
lab*nce 0.4 0.15 0.18g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.6 (1.0)
cmyn3* 0.4 0.49 0.4 (0.0)
olvi4* 1.0 0.85 1.0 0.6
cmyn4* 0.0 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 57.36 11.03 0.93
LAB*LABa 57.36 11.29 -1.24
LAB*LABb 57.36 11.36 353.66

CIELAB relative:
lab*lab 0.508 0.149 -0.016
lab*ach 0.525 0.15 0.982
lab*nych 0.4 0.15 0.982

Natural Colour (NC) relative:
lab*lrj 0.508 0.136 -0.063
lab*nce 0.525 0.15 0.93
lab*nce 0.4 0.15 0.72r

B50R'

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'

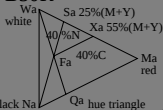
olvi3*Fa: 0.6, 0.525, 0.45
tch*Fa: 0.525, 0.15, 0.191
ncw*Fa: 0.4, 0.15, 0.45
olvi3*Ma: 1.0, 0.5, 0.0
tch*Ma: 0.5, 1.0, 0.191
ncw*Ma: 0.0, 1.0, 0.0

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

B50R'



black Na

Qa hue triangle

ME500-7.

Approximation of elementary and intermediate colours (8 colours); Device independent colour coordinates LAB*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 setcmymcolor

output: cmyn4* setcmymcolor

equivalent
colorimetric
colour coordinates

System:

ORS18

J50G'

olvi3*Fa: 0.6, 0.555, 0.51, 1.0
cmyn3*Fa: 0.4, 0.445, 0.49, 0.4
olvi4*Fa: 1.0, 0.925, 0.85, 0.6
cmyn4*Fa: 0.0, 0.075, 0.15, 0.4

olvi3**Fa: 0.6, 0.555, 0.51, 1.0
cmyn3**Fa: 0.4, 0.445, 0.49, 0.4
olvi4**Fa: 1.0, 0.93, 0.85, 0.6
cmyn4**Fa: 0.0, 0.07, 0.15, 0.4

abpe3*: 0.045, 0.045, 0.481, 0.184
tq3*: isect: 0.555, 0.519, 0.816, 3.0

G'

PS colour operator output:

left: olvi3* (rgb) setrgbcolor

top: cmyn3* setcmymcolor

right: cmyn4* setcmymcolor

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

J50G'

Inform. Techn. (IT) relative:
olvi3* 0.555 0.6 0.51 (1.0)
cmyn3* 0.445 0.4 0.49 (0.0)
olvi4* 0.925 1.0 0.85 0.6
cmyn4* 0.075 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 -5.8 11.92
LAB*LABa 60.51 -5.47 9.5
LAB*LABb 60.51 10.97 119.98

CIELAB relative:
lab*lab 0.552 -0.074 0.13
lab*ach 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*nce 0.525 0.15 0.349
lab*nce 0.4 0.15 0.39g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.51 (1.0)
cmyn3* 0.49 0.4 0.49 (0.0)
olvi4* 0.85 1.0 0.85 0.6
cmyn4* 0.15 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 58.65 -9.68 7.46
LAB*LABa 58.65 -9.42 5.24
LAB*LABb 58.65 10.79 150.91

CIELAB relative:
lab*lab 0.514 -0.13 0.073
lab*ach 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*nce 0.525 0.15 0.46
lab*nce 0.4 0.15 0.83g

Inform. Techn. (IT) relative:
olvi3* 0.51 0.6 0.6 (1.0)
cmyn3* 0.49 0.4 0.4 (0.0)
olvi4* 0.85 1.0 1.0 0.6
cmyn4* 0.15 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*LABb 58.93 8.14 236.02

CIELAB relative:
lab*lab 0.529 -0.083 -0.123
lab*ach 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*nce 0.525 0.15 0.668
lab*nce 0.4 0.15 0.67b

G50J'

J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.6 0.51 (1.0)
cmyn3* 0.4 0.4 0.49 (0.0)
olvi4* 1.0 1.0 0.85 0.6
cmyn4* 0.0 0.0 0.15 0.4

CIELAB absolute:
LAB*LAB 63.69 -1.91 16.38
LAB*LABa 63.69 -1.53 13.76
LAB*LABb 63.69 13.85 96.38

CIELAB relative:
lab*lab 0.59 -0.016 0.149
lab*ach 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*nce 0.525 0.15 0.265
lab*nce 0.4 0.15 0.50g

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*LABb 58.65 0.0 -

CIELAB relative:
lab*lab 0.525 0.0 0.0
lab*ach 0.525 0.15 0.15
lab*nch 0.475 0.0 -

Natural Colour (NC) relative:
lab*lrj 0.525 0.0 0.0
lab*nce 0.525 0.0 -
lab*nce 0.475 0.0 -

B'

R50J'

Inform. Techn. (IT) relative:
olvi3* 0.6 0.555 0.51 (1.0)
cmyn3* 0.4 0.445 0.49 (0.0)
olvi4* 1.0 0.925 0.85 0.6
cmyn4* 0.0 0.075 0.15 0.4

CIELAB absolute:
LAB*LAB 60.51 3.82 13.07
LAB*LABa 60.51 4.13 10.67
LAB*LABb 60.51 11.44 68.82

CIELAB relative:
lab*lab 0.549 0.054 0.14
lab*ach 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*nce 0.525 0.15 0.162
lab*nce 0.4 0.15 0.64g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.51 (1.0)
cmyn3* 0.4 0.49 0.49 (0.0)
olvi4* 1.0 0.85 0.85 0.6
cmyn4* 0.0 0.15 0.15 0.4

CIELAB absolute:
LAB*LAB 58.65 9.55 9.76
LAB*LABa 58.65 9.81 7.58
LAB*LABb 58.65 12.39 37.69

CIELAB relative:
lab*lab 0.508 0.119 0.092
lab*ach 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*nce 0.525 0.15 0.046
lab*nce 0.4 0.15 0.18g

Inform. Techn. (IT) relative:
olvi3* 0.6 0.51 0.6 (1.0)
cmyn3* 0.4 0.49 0.4 (0.0)
olvi4* 1.0 0.85 1.0 0.6
cmyn4* 0.0 0.15 0.0 0.4

CIELAB absolute:
LAB*LAB 57.36 11.03 0.93
LAB*LABa 57.36 11.29 -1.24
LAB*LABb 57.36 11.36 353.66

CIELAB relative:
lab*lab 0.508 0.149 -0.016
lab*ach 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*nce 0.525 0.15 0.93
lab*nce 0.4 0.15 0.72r

B50R'

All data for the colour R50J'

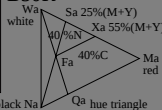
R50J'

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

B50R'



black Na

ME500-7.

Approximation of elementary and intermediate colours (8 colours); Device independent colour coordinates LAB*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 setcmycolor

output: cmyn4* setcmycolor