

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

ol*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

0.75

0.50

0.25

0.00

blackness n^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

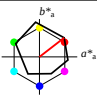
chromaticness c^*

$n^* = 1.0$

NE440-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

ORS18; adapted (a) CIELAB data

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



Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = \text{lab}^*h = 38/360 = 0.105$

lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

ol*Ma: 1.0 0.0 0.0

triangle lightness

1.00

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

0.75

0.50

0.25

0.00

blackness n^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

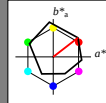
chromaticness c^*

$n^* = 1.0$

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

ORS18; adapted (a) CIELAB data

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



relative Illumin. Technology (IT)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Illumin. Technology (IT)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)	L^*	a^*	b^*	C^*	h^*
ol*Ma	1.0	0.0	0.0	0.0	0.0
standard and adapted CIELAB	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0
LAP*Ma	1.0	0.0	0.0	0.0	0.0

relative CIE LAB	L^*	a^*	b^*	C^*	h^*