

$XYZ_w = 97.45, 100.0, 95.98$

$A_1 = 2.5 (a_1 - a_{1,n}) Y$

$B_1 = 2.5 B_c (b_1 - b_{1,n}) Y$

$a_1 = a_{20} [ (x - x_c) / y ]$

$b_1 = b_{20} [ z / y ]$

$a_{20} = 1, b_{20} = -0.4$

$x_c = 0.110, B_c = 1.000$

$C_{AB1} = [A_1^2 + B_1^2]^{1/2}$

6 Ostwald colours (o)

of maximum (m)  $C_{AB}$  in  
chromatic value diagram (A, B)<sup>100</sup>

Illumin. P55,  $Y_w = 100, Y_N = 10$

| Name           | Range   | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $\lambda_d$ |
|----------------|---------|-------|-------|-------|--------|--------|-------------|
| R <sub>d</sub> | 569_775 | 67.41 | 46.23 | 9.73  | 0.5463 | 0.3747 | 597 490     |
| Y <sub>d</sub> | 494_775 | 83.23 | 95.26 | 15.02 | 0.43   | 0.4922 | 572 464     |
| G <sub>d</sub> | 494_569 | 25.67 | 59.13 | 14.98 | 0.2572 | 0.5926 | 536 536c    |
| C <sub>d</sub> | 380_569 | 39.9  | 63.87 | 95.94 | 0.1997 | 0.3198 | 490 597     |
| B <sub>d</sub> | 380_494 | 24.07 | 14.84 | 90.66 | 0.1857 | 0.1145 | 464 572     |
| M <sub>d</sub> | 569_494 | 81.63 | 50.97 | 90.7  | 0.3655 | 0.2282 | 536c 536    |
| W <sub>d</sub> | 380_775 | 97.45 | 100.0 | 95.98 | 0.3321 | 0.3407 | 100%        |
| N <sub>d</sub> | 380_775 | 9.74  | 10.0  | 9.59  | 0.3321 | 0.3407 | 10%         |
| Z <sub>d</sub> | 380_775 | 17.54 | 18.0  | 17.27 | 0.3321 | 0.3407 | 18%         |

Parameter:

Y & Name

Illuminant P55

$Y_w = 100, Y_N = 10$

