

$XYZ_{W,10} = 101.75, 100.0, 64.44$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,n,10}) Y_{10}$

$B_{2,10} = 2.5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$

$a_{2,10} = a_{20} [(x_{10} - x_c) / y_{10}]$

$b_{2,10} = b_{20} [z_{10} / y_{10}]$

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

$x_c = 0.110, B_c = 1.300$

$C_{AB,2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$

6 Ostwald-Farben (o)

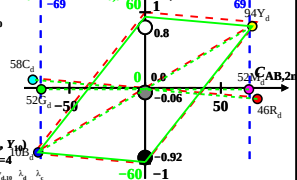
von maximalem (m)  $C_{AB,10}$

linearen Farbenraum ( $C_{AB,2,10}$ )

Lichtart P40,  $Y_{W,10} = 100, Y_{N,10} = 4$

| Name  | Bereich | $X_{d,10}$ | $Y_{d,10}$ | $Z_{d,10}$ | $x_{d,10}$ | $y_{d,10}$ | $\lambda_d$ | $\lambda_c$ |
|-------|---------|------------|------------|------------|------------|------------|-------------|-------------|
| $R_d$ | 569_775 | 72.63      | 45.71      | 2.64       | 0.6003     | 0.3778     | 597         | 487         |
| $Y_d$ | 492_775 | 91.71      | 93.7       | 6.23       | 0.4785     | 0.4889     | 572         | 465         |
| $G_d$ | 492_569 | 23.25      | 52.09      | 6.23       | 0.285      | 0.6385     | 535         | 535c        |
| $C_d$ | 380_569 | 33.29      | 58.38      | 64.44      | 0.2132     | 0.3739     | 487         | 597         |
| $B_d$ | 380_492 | 14.21      | 10.39      | 60.86      | 0.1662     | 0.1216     | 465         | 572         |
| $M_d$ | 569_492 | 82.67      | 52.01      | 60.86      | 0.4227     | 0.2659     | 535c        | 535         |
| $W_d$ | 380_775 | 101.75     | 100.0      | 64.44      | 0.3822     | 0.3756     | 100%        |             |
| $N_d$ | 380_775 | 4.07       | 4.0        | 2.57       | 0.3822     | 0.3756     | 4%          |             |
| $Z_d$ | 380_775 | 18.31      | 18.0       | 11.6       | 0.3822     | 0.3756     | 18%         |             |

$L^*_{10} = 60 \log[f(Y_{10,an})]$   $Y_{10,an} = [Y_{10} - 50] / 50$



$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$

$n$  nähert sich 1 für:

1. abnehmendem Kontrast  $C$
2. aneinandergrenzende / separate Farben.

Parameter:

$Y_{10}$  & Name

Lichtart P40

$Y_{W,10} = 100, Y_{N,10} = 4$