

N-K5
522595.259

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,52249$ | $v_d = 59,48$ | $n_F - n_C = 0,008784$ |
| $n_e = 1,52458$ | $v_e = 59,22$ | $n_{F'} - n_{C'} = 0,008858$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,49656 |
| $n_{1970,1}$ | 1970,1 | 1,50146 |
| $n_{1529,6}$ | 1529,6 | 1,50664 |
| $n_{1060,0}$ | 1060,0 | 1,51197 |
| n_t | 1014,0 | 1,51257 |
| n_s | 852,1 | 1,51507 |
| n_r | 706,5 | 1,51829 |
| n_C | 656,3 | 1,51982 |
| $n_{C'}$ | 643,8 | 1,52024 |
| $n_{632,8}$ | 632,8 | 1,52064 |
| n_D | 589,3 | 1,52241 |
| n_d | 587,6 | 1,52249 |
| n_e | 546,1 | 1,52458 |
| n_F | 486,1 | 1,52860 |
| $n_{F'}$ | 480,0 | 1,52910 |
| n_g | 435,8 | 1,53338 |
| n_h | 404,7 | 1,53734 |
| n_i | 365,0 | 1,54412 |
| $n_{334,1}$ | 334,1 | 1,55145 |
| $n_{312,6}$ | 312,6 | 1,55821 |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,776 | 0,530 |
| 2325 | 0,847 | 0,660 |
| 1970 | 0,946 | 0,870 |
| 1530 | 0,994 | 0,986 |
| 1060 | 0,998 | 0,995 |
| 700 | 0,998 | 0,994 |
| 660 | 0,997 | 0,992 |
| 620 | 0,997 | 0,993 |
| 580 | 0,998 | 0,995 |
| 546 | 0,998 | 0,995 |
| 500 | 0,997 | 0,993 |
| 460 | 0,996 | 0,991 |
| 436 | 0,996 | 0,991 |
| 420 | 0,996 | 0,991 |
| 405 | 0,996 | 0,989 |
| 400 | 0,995 | 0,988 |
| 390 | 0,994 | 0,984 |
| 380 | 0,991 | 0,977 |
| 370 | 0,985 | 0,962 |
| 365 | 0,982 | 0,956 |
| 350 | 0,950 | 0,880 |
| 334 | 0,831 | 0,630 |
| 320 | 0,536 | 0,210 |
| 310 | 0,221 | 0,020 |
| 300 | 0,058 | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2843 |
| $P_{C,s}$ | 0,5404 |
| $P_{d,C}$ | 0,3044 |
| $P_{e,d}$ | 0,2384 |
| $P_{g,F}$ | 0,5438 |
| $P_{i,h}$ | 0,7717 |
| $P'_{s,t}$ | 0,2819 |
| $P'_{C',s}$ | 0,5839 |
| $P'_{d,C'}$ | 0,2538 |
| $P'_{e,d}$ | 0,2364 |
| $P'_{g,F'}$ | 0,4828 |
| $P'_{i,h}$ | 0,7653 |

Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | -0,0025 |
| $\Delta P_{C,s}$ | -0,0012 |
| $\Delta P_{F,e}$ | 0,0001 |
| $\Delta P_{g,F}$ | 0,0000 |
| $\Delta P_{i,g}$ | -0,0019 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,08511833 |
| B_2 | 0,199562005 |
| B_3 | 0,930511663 |
| C_1 | 0,00661099503 |
| C_2 | 0,024110866 |
| C_3 | 111,982777 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-4,13 \cdot 10^{-7}$ |
| D_1 | $1,03 \cdot 10^{-8}$ |
| D_2 | $-3,40 \cdot 10^{-11}$ |
| E_0 | $4,73 \cdot 10^{-7}$ |
| E_1 | $5,19 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,213 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 34/30 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| | |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,6 |
| $T_g [^\circ C]$ | 546 |
| $T_{10}^{13,0} [^\circ C]$ | 540 |
| $T_{10}^{7,6} [^\circ C]$ | 720 |
| $c_p [J/(g \cdot K)]$ | 0,783 |
| $\lambda [W/(m \cdot K)]$ | 0,950 |
| $\rho [g/cm^3]$ | 2,59 |
| $E [10^3 N/mm^2]$ | 71 |
| μ | 0,224 |
| $K [10^{-6} mm^2/N]$ | 3,03 |
| $HK_{0,1/20}$ | 530 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|-----|-----|---------------------------------------|-----|-----|
| [$^\circ C$] | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 1,5 | 2,1 | 2,6 | -0,6 | 0,0 | 0,5 |
| +20/ +40 | 1,4 | 2,1 | 2,7 | 0,1 | 0,7 | 1,4 |
| +60/ +80 | 1,4 | 2,1 | 2,8 | 0,4 | 1,1 | 1,8 |