

N-LAK8 713538.375

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,71300$ | $v_d = 53,83$ | $n_F - n_C = 0,013245$ |
| $n_e = 1,71616$ | $v_e = 53,61$ | $n_{F'} - n_{C'} = 0,013359$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,67294 |
| $n_{1970,1}$ | 1970,1 | 1,68075 |
| $n_{1529,6}$ | 1529,6 | 1,68890 |
| $n_{1060,0}$ | 1060,0 | 1,69710 |
| n_t | 1014,0 | 1,69802 |
| n_s | 852,1 | 1,70181 |
| n_r | 706,5 | 1,70668 |
| n_C | 656,3 | 1,70897 |
| $n_{C'}$ | 643,8 | 1,70962 |
| $n_{632,8}$ | 632,8 | 1,71022 |
| n_D | 589,3 | 1,71289 |
| n_d | 587,6 | 1,71300 |
| n_e | 546,1 | 1,71616 |
| n_F | 486,1 | 1,72222 |
| $n_{F'}$ | 480,0 | 1,72297 |
| n_g | 435,8 | 1,72944 |
| n_h | 404,7 | 1,73545 |
| n_i | 365,0 | 1,74573 |
| $n_{334,1}$ | 334,1 | 1,75687 |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,398 | 0,100 |
| 2325 | 0,707 | 0,420 |
| 1970 | 0,950 | 0,880 |
| 1530 | 0,992 | 0,979 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,998 | 0,996 |
| 660 | 0,998 | 0,995 |
| 620 | 0,998 | 0,994 |
| 580 | 0,998 | 0,994 |
| 546 | 0,998 | 0,995 |
| 500 | 0,998 | 0,994 |
| 460 | 0,995 | 0,987 |
| 436 | 0,992 | 0,979 |
| 420 | 0,988 | 0,970 |
| 405 | 0,981 | 0,952 |
| 400 | 0,977 | 0,943 |
| 390 | 0,965 | 0,915 |
| 380 | 0,946 | 0,870 |
| 370 | 0,905 | 0,780 |
| 365 | 0,877 | 0,720 |
| 350 | 0,739 | 0,470 |
| 334 | 0,509 | 0,185 |
| 320 | 0,276 | 0,040 |
| 310 | 0,137 | 0,010 |
| 300 | 0,044 | |
| 290 | 0,010 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2861 |
| $P_{C,s}$ | 0,5408 |
| $P_{d,C}$ | 0,3042 |
| $P_{e,d}$ | 0,2383 |
| $P_{g,F}$ | 0,5450 |
| $P_{i,h}$ | 0,7764 |
| | |
| $P'_{s,t}$ | 0,2836 |
| $P'_{C',s}$ | 0,5843 |
| $P'_{d,C'}$ | 0,2536 |
| $P'_{e,d}$ | 0,2363 |
| $P'_{g,F'}$ | 0,4838 |
| $P'_{i,h}$ | 0,7698 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0266 |
| $\Delta P_{C,s}$ | 0,0124 |
| $\Delta P_{F,e}$ | -0,0026 |
| $\Delta P_{g,F}$ | -0,0083 |
| $\Delta P_{i,g}$ | -0,0428 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,33183167 |
| B_2 | 0,546623206 |
| B_3 | 1,19084015 |
| C_1 | 0,00620023871 |
| C_2 | 0,0216465439 |
| C_3 | 82,5827736 |

| Sonstige Eigenschaften | |
|--|-------|
| $\alpha_{-30/+70^\circ\text{C}} [10^{-6}/\text{K}]$ | 5,6 |
| $\alpha_{+20/+300^\circ\text{C}} [10^{-6}/\text{K}]$ | 6,7 |
| $T_g [^\circ\text{C}]$ | 643 |
| $T_{10}^{13,0} [^\circ\text{C}]$ | 635 |
| $T_{10}^{7,6} [^\circ\text{C}]$ | 717 |
| $c_p [\text{J}/(\text{g}\cdot\text{K})]$ | 0,620 |
| $\lambda [\text{W}/(\text{m}\cdot\text{K})]$ | 0,840 |
| | |
| $\rho [\text{g}/\text{cm}^3]$ | 3,75 |
| $E [10^3 \text{N}/\text{mm}^2]$ | 115 |
| μ | 0,289 |
| $K [10^{-6} \text{mm}^2/\text{N}]$ | 1,81 |
| $HK_{0,1/20}$ | 740 |
| HG | 2 |
| | |
| | |
| | |
| CR | 3 |
| FR | 2 |
| SR | 52,3 |
| AR | 1 |
| PR | 3,3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $4,10 \cdot 10^{-6}$ |
| D_1 | $1,25 \cdot 10^{-8}$ |
| D_2 | $-1,60 \cdot 10^{-11}$ |
| E_0 | $4,30 \cdot 10^{-7}$ |
| E_1 | $6,29 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu\text{m}]$ | 0,213 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 37/30 |
| (* = λ_{70}/λ_5) | |

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

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|--|-----|-----|--|-----|-----|
| | $\Delta n_{rel}/\Delta T [10^{-6}/\text{K}]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/\text{K}]$ | | |
| $[\text{^\circ C}]$ | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 4,0 | 4,7 | 5,4 | 1,7 | 2,4 | 3,0 |
| +20/ +40 | 4,1 | 5,0 | 5,8 | 2,6 | 3,5 | 4,3 |
| +60/ +80 | 4,3 | 5,2 | 6,2 | 3,1 | 4,1 | 5,0 |