

N-LAF21
788475.428

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,78800$ | $v_d = 47,49$ | $n_F - n_C = 0,016593$ |
| $n_e = 1,79195$ | $v_e = 47,25$ | $n_{F'} - n_{C'} = 0,016761$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,74419 |
| $n_{1970,1}$ | 1970,1 | 1,75191 |
| $n_{1529,6}$ | 1529,6 | 1,76014 |
| $n_{1060,0}$ | 1060,0 | 1,76892 |
| n_t | 1014,0 | 1,76995 |
| n_s | 852,1 | 1,77434 |
| n_r | 706,5 | 1,78019 |
| n_C | 656,3 | 1,78301 |
| $n_{C'}$ | 643,8 | 1,78380 |
| $n_{632,8}$ | 632,8 | 1,78454 |
| n_D | 589,3 | 1,78785 |
| n_d | 587,6 | 1,78800 |
| n_e | 546,1 | 1,79195 |
| n_F | 486,1 | 1,79960 |
| $n_{F'}$ | 480,0 | 1,80056 |
| n_g | 435,8 | 1,80882 |
| n_h | 404,7 | 1,81657 |
| n_i | 365,0 | 1,83002 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 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 | 0,430 | 0,121 |
| 2325 | 0,713 | 0,429 |
| 1970 | 0,942 | 0,862 |
| 1530 | 0,988 | 0,971 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,998 | 0,994 |
| 660 | 0,997 | 0,993 |
| 620 | 0,997 | 0,992 |
| 580 | 0,997 | 0,992 |
| 546 | 0,997 | 0,993 |
| 500 | 0,996 | 0,989 |
| 460 | 0,990 | 0,976 |
| 436 | 0,985 | 0,964 |
| 420 | 0,981 | 0,952 |
| 405 | 0,971 | 0,928 |
| 400 | 0,966 | 0,916 |
| 390 | 0,949 | 0,878 |
| 380 | 0,921 | 0,814 |
| 370 | 0,870 | 0,707 |
| 365 | 0,833 | 0,634 |
| 350 | 0,644 | 0,333 |
| 334 | 0,276 | 0,040 |
| 320 | 0,030 | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2646 |
| $P_{C,s}$ | 0,5222 |
| $P_{d,C}$ | 0,3009 |
| $P_{e,d}$ | 0,2380 |
| $P_{g,F}$ | 0,5555 |
| $P_{i,h}$ | 0,8106 |
| $P'_{s,t}$ | 0,2619 |
| $P'_{C',s}$ | 0,5641 |
| $P'_{d,C'}$ | 0,2507 |
| $P'_{e,d}$ | 0,2356 |
| $P'_{g,F'}$ | 0,4927 |
| $P'_{i,h}$ | 0,8025 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0165 |
| $\Delta P_{C,s}$ | 0,0086 |
| $\Delta P_{F,e}$ | -0,0024 |
| $\Delta P_{g,F}$ | -0,0084 |
| $\Delta P_{i,g}$ | -0,0481 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,87134529 |
| B_2 | 0,25078301 |
| B_3 | 1,22048639 |
| C_1 | 0,0093332228 |
| C_2 | 0,0345637762 |
| C_3 | 83,2404866 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6,0 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7,1 |
| $T_g [^\circ C]$ | 653 |
| $T_{10}^{13,0} [^\circ C]$ | 659 |
| $T_{10}^{7,6} [^\circ C]$ | 729 |
| $c_p [J/(g \cdot K)]$ | 0,550 |
| $\lambda [W/(m \cdot K)]$ | 0,830 |
| $\rho [g/cm^3]$ | 4,28 |
| $E [10^3 N/mm^2]$ | 124 |
| μ | 0,295 |
| $K [10^{-6} mm^2/N]$ | 1,46 |
| $HK_{0,1/20}$ | 730 |
| HG | 2 |
| CR | 1 |
| FR | 1 |
| SR | 51,3 |
| AR | 1 |
| PR | 1,3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $3,11 \cdot 10^{-6}$ |
| D_1 | $1,13 \cdot 10^{-8}$ |
| D_2 | $-2,07 \cdot 10^{-11}$ |
| E_0 | $5,88 \cdot 10^{-7}$ |
| E_1 | $6,32 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,199 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 39/32 |
| (* = λ_{70}/λ_5) | |

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

| 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 | 3,8 | 4,8 | 5,8 | 1,4 | 2,4 | 3,3 |
| +20/ +40 | 3,9 | 5,1 | 6,2 | 2,3 | 3,5 | 4,6 |
| +60/ +80 | 4,0 | 5,3 | 6,5 | 2,8 | 4,1 | 5,3 |