

LLF1
548458.294

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,54814$ | $v_d = 45,75$ | $n_F - n_C = 0,011981$ |
| $n_e = 1,55099$ | $v_e = 45,47$ | $n_{F'} - n_{C'} = 0,012118$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,51865 |
| $n_{1970,1}$ | 1970,1 | 1,52354 |
| $n_{1529,6}$ | 1529,6 | 1,52884 |
| $n_{1060,0}$ | 1060,0 | 1,53470 |
| n_t | 1014,0 | 1,53541 |
| n_s | 852,1 | 1,53845 |
| n_r | 706,5 | 1,54256 |
| n_C | 656,3 | 1,54457 |
| $n_{C'}$ | 643,8 | 1,54513 |
| $n_{632,8}$ | 632,8 | 1,54566 |
| n_D | 589,3 | 1,54803 |
| n_d | 587,6 | 1,54814 |
| n_e | 546,1 | 1,55099 |
| n_F | 486,1 | 1,55655 |
| $n_{F'}$ | 480,0 | 1,55725 |
| n_g | 435,8 | 1,56333 |
| n_h | 404,7 | 1,56911 |
| n_i | 365,0 | 1,57932 |
| $n_{334,1}$ | 334,1 | 1,59092 |
| $n_{312,6}$ | 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 | 0,758 | 0,500 |
| 2325 | 0,821 | 0,610 |
| 1970 | 0,933 | 0,840 |
| 1530 | 0,996 | 0,990 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,999 | 0,997 |
| 660 | 0,998 | 0,996 |
| 620 | 0,998 | 0,996 |
| 580 | 0,999 | 0,997 |
| 546 | 0,999 | 0,997 |
| 500 | 0,998 | 0,996 |
| 460 | 0,998 | 0,996 |
| 436 | 0,998 | 0,996 |
| 420 | 0,998 | 0,995 |
| 405 | 0,998 | 0,994 |
| 400 | 0,997 | 0,993 |
| 390 | 0,997 | 0,992 |
| 380 | 0,995 | 0,988 |
| 370 | 0,994 | 0,984 |
| 365 | 0,992 | 0,981 |
| 350 | 0,982 | 0,955 |
| 334 | 0,919 | 0,810 |
| 320 | 0,618 | 0,300 |
| 310 | 0,240 | 0,010 |
| 300 | 0,024 | |
| 290 | 0,002 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2537 |
| $P_{C,s}$ | 0,5108 |
| $P_{d,C}$ | 0,2983 |
| $P_{e,d}$ | 0,2376 |
| $P_{g,F}$ | 0,5660 |
| $P_{i,h}$ | 0,8520 |
| $P'_{s,t}$ | 0,2508 |
| $P'_{C',s}$ | 0,5516 |
| $P'_{d,C'}$ | 0,2484 |
| $P'_{e,d}$ | 0,2349 |
| $P'_{g,F'}$ | 0,5017 |
| $P'_{i,h}$ | 0,8424 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0025 |
| $\Delta P_{C,s}$ | 0,0012 |
| $\Delta P_{F,e}$ | -0,0003 |
| $\Delta P_{g,F}$ | -0,0009 |
| $\Delta P_{i,g}$ | -0,0062 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,21640125 |
| B_2 | 0,13366454 |
| B_3 | 0,883399468 |
| C_1 | 0,00857807248 |
| C_2 | 0,0420143003 |
| C_3 | 107,59306 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,1 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,2 |
| $T_g [^\circ C]$ | 431 |
| $T_{10}^{13,0} [^\circ C]$ | 426 |
| $T_{10}^{7,6} [^\circ C]$ | 628 |
| $c_p [J/(g \cdot K)]$ | 0,650 |
| $\lambda [W/(m \cdot K)]$ | 0,990 |
| $\rho [g/cm^3]$ | 2,94 |
| $E [10^3 N/mm^2]$ | 60 |
| μ | 0,208 |
| $K [10^{-6} mm^2/N]$ | 3,05 |
| $HK_{0,1/20}$ | 450 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 2 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $3,25 \cdot 10^{-7}$ |
| D_1 | $1,74 \cdot 10^{-8}$ |
| D_2 | $-6,12 \cdot 10^{-11}$ |
| E_0 | $6,53 \cdot 10^{-7}$ |
| E_1 | $2,58 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,233 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 33/31 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-----------------------|--|
| bleihaltig glass type | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|-----|-----|---------------------------------------|-----|-----|
| | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| $[^\circ C]$ | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 1,5 | 2,4 | 3,4 | -0,6 | 0,3 | 1,3 |
| +20/ +40 | 1,9 | 2,9 | 3,9 | 0,6 | 1,5 | 2,5 |
| +60/ +80 | 2,0 | 3,0 | 4,1 | 1,0 | 2,0 | 3,0 |