

N-BK7HTi 517642.251

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,51680$ | $v_d = 64,17$ | $n_F - n_C = 0,008054$ |
| $n_e = 1,51872$ | $v_e = 63,96$ | $n_{F'} - n_{C'} = 0,008110$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,48921 |
| $n_{1970,1}$ | 1970,1 | 1,49495 |
| $n_{1529,6}$ | 1529,6 | 1,50091 |
| $n_{1060,0}$ | 1060,0 | 1,50669 |
| n_t | 1014,0 | 1,50731 |
| n_s | 852,1 | 1,50980 |
| n_r | 706,5 | 1,51289 |
| n_C | 656,3 | 1,51432 |
| $n_{C'}$ | 643,8 | 1,51472 |
| $n_{632,8}$ | 632,8 | 1,51509 |
| n_D | 589,3 | 1,51673 |
| n_d | 587,6 | 1,51680 |
| n_e | 546,1 | 1,51872 |
| n_F | 486,1 | 1,52238 |
| $n_{F'}$ | 480,0 | 1,52283 |
| n_g | 435,8 | 1,52668 |
| n_h | 404,7 | 1,53024 |
| n_i | 365,0 | 1,53627 |
| $n_{334,1}$ | 334,1 | 1,54272 |
| $n_{312,6}$ | 312,6 | 1,54862 |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,752 | 0,490 |
| 2325 | 0,845 | 0,657 |
| 1970 | 0,954 | 0,888 |
| 1530 | 0,995 | 0,987 |
| 1060 | 0,999 | 0,999 |
| 700 | 0,999 | 0,998 |
| 660 | 0,999 | 0,997 |
| 620 | 0,999 | 0,997 |
| 580 | 0,999 | 0,998 |
| 546 | 0,999 | 0,998 |
| 500 | 0,999 | 0,997 |
| 460 | 0,998 | 0,996 |
| 436 | 0,998 | 0,996 |
| 420 | 0,998 | 0,996 |
| 405 | 0,998 | 0,996 |
| 400 | 0,998 | 0,996 |
| 390 | 0,998 | 0,994 |
| 380 | 0,997 | 0,992 |
| 370 | 0,996 | 0,989 |
| 365 | 0,994 | 0,985 |
| 350 | 0,985 | 0,964 |
| 334 | 0,948 | 0,875 |
| 320 | 0,815 | 0,600 |
| 310 | 0,567 | 0,242 |
| 300 | 0,221 | 0,023 |
| 290 | 0,040 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,3098 |
| $P_{C,s}$ | 0,5612 |
| $P_{d,C}$ | 0,3076 |
| $P_{e,d}$ | 0,2386 |
| $P_{g,F}$ | 0,5349 |
| $P_{i,h}$ | 0,7483 |
| $P'_{s,t}$ | 0,3076 |
| $P'_{C',s}$ | 0,6062 |
| $P'_{d,C'}$ | 0,2566 |
| $P'_{e,d}$ | 0,2370 |
| $P'_{g,F'}$ | 0,4754 |
| $P'_{i,h}$ | 0,7432 |

Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0,0216 |
| $\Delta P_{C,s}$ | 0,0087 |
| $\Delta P_{F,e}$ | -0,0009 |
| $\Delta P_{g,F}$ | -0,0009 |
| $\Delta P_{i,g}$ | 0,0035 |

| Konstanten der Dispersionsformel | |
|----------------------------------|---------------|
| B_1 | 1,03961212 |
| B_2 | 0,231792344 |
| B_3 | 1,01046945 |
| C_1 | 0,00600069867 |
| C_2 | 0,0200179144 |
| C_3 | 103,560653 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $1,86 \cdot 10^{-6}$ |
| D_1 | $1,31 \cdot 10^{-8}$ |
| D_2 | $-1,37 \cdot 10^{-11}$ |
| E_0 | $4,34 \cdot 10^{-7}$ |
| E_1 | $6,27 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,17 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 33/29 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|--------------|--|
| i-Linienglas | |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7,1 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8,3 |
| $T_g [^\circ C]$ | 557 |
| $T_{10}^{13,0} [^\circ C]$ | 557 |
| $T_{10}^{7,6} [^\circ C]$ | 719 |
| $c_p [J/(g \cdot K)]$ | 0,858 |
| $\lambda [W/(m \cdot K)]$ | 1,114 |
| $\rho [g/cm^3]$ | 2,51 |
| $E [10^3 N/mm^2]$ | 82 |
| μ | 0,206 |
| $K [10^{-6} mm^2/N]$ | 2,77 |
| $HK_{0,1/20}$ | 610 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 2.3 |
| PR | 2.3 |

| 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 | 2,4 | 2,9 | 3,3 | 0,3 | 0,8 | 1,2 |
| +20/ +40 | 2,4 | 3,0 | 3,5 | 1,1 | 1,6 | 2,1 |
| +60/ +80 | 2,5 | 3,1 | 3,7 | 1,5 | 2,1 | 2,7 |