

N-KZFS4HT 613445.300

$n_d = 1,61336$

$v_d = 44,49$

$n_F - n_C = 0,013785$

$n_e = 1,61664$

$v_e = 44,27$

$n_F - n_C = 0,013929$

Brechzahlen

| | λ [nm] | |
|--------------|----------------|---------|
| $n_{2325,4}$ | 2325,4 | 1,57535 |
| $n_{1970,1}$ | 1970,1 | 1,58233 |
| $n_{1529,6}$ | 1529,6 | 1,58971 |
| $n_{1060,0}$ | 1060,0 | 1,59739 |
| n_t | 1014,0 | 1,59828 |
| n_s | 852,1 | 1,60199 |
| n_r | 706,5 | 1,60688 |
| n_C | 656,3 | 1,60922 |
| $n_{C'}$ | 643,8 | 1,60987 |
| $n_{632,8}$ | 632,8 | 1,61049 |
| n_D | 589,3 | 1,61324 |
| n_d | 587,6 | 1,61336 |
| n_e | 546,1 | 1,61664 |
| n_F | 486,1 | 1,62300 |
| $n_{F'}$ | 480,0 | 1,62380 |
| n_g | 435,8 | 1,63071 |
| n_h | 404,7 | 1,63723 |
| n_i | 365,0 | 1,64865 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

Konstanten der Dispersionsformel

| | |
|-------|---------------|
| B_1 | 1,350554240 |
| B_2 | 0,197575506 |
| B_3 | 1,099629920 |
| C_1 | 0,00876282070 |
| C_2 | 0,0371767201 |
| C_3 | 90,3866994 |

Konstanten der Formel für dn/dT

| | |
|----------------------------------|-----------|
| D_0 | 1,81E-06 |
| D_1 | 1,16E-08 |
| D_2 | -7,99E-12 |
| E_0 | 6,20E-07 |
| E_1 | 7,94E-10 |
| λ_{TK} [μm] | 0,205 |

Temperaturkoeffizienten der Lichtbrechung

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

Reintransmissionsgrad τ_i

| λ [nm] | τ_i [10mm] | τ_i [25mm] |
|----------------|-----------------|-----------------|
| 2500 | 0,510 | 0,190 |
| 2325 | 0,750 | 0,490 |
| 1970 | 0,951 | 0,880 |
| 1530 | 0,984 | 0,961 |
| 1060 | 0,999 | 0,999 |
| 700 | 0,998 | 0,994 |
| 660 | 0,997 | 0,993 |
| 620 | 0,997 | 0,992 |
| 580 | 0,997 | 0,993 |
| 546 | 0,997 | 0,993 |
| 500 | 0,995 | 0,988 |
| 460 | 0,992 | 0,980 |
| 436 | 0,990 | 0,975 |
| 420 | 0,988 | 0,971 |
| 405 | 0,986 | 0,966 |
| 400 | 0,985 | 0,962 |
| 390 | 0,980 | 0,951 |
| 380 | 0,973 | 0,930 |
| 370 | 0,959 | 0,900 |
| 365 | 0,950 | 0,870 |
| 350 | 0,870 | 0,700 |
| 334 | 0,550 | 0,220 |
| 320 | 0,060 | 0,000 |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

Farbcode

λ_{80} / λ_5 36/32

Bemerkungen

zum Blankpressen geeignet
in Brechzahlstufe 0,5 verfügbar

Relative Teildispersionen P

| | |
|-----------|--------|
| $P_{s,t}$ | 0,2694 |
| $P_{C,s}$ | 0,5240 |
| $P_{d,C}$ | 0,3006 |
| $P_{e,d}$ | 0,2378 |
| $P_{g,F}$ | 0,5590 |
| $P_{i,h}$ | 0,8284 |

Relative Teildispersionen P'

| | |
|-------------|--------|
| $P'_{s,t}$ | 0,2666 |
| $P'_{C',s}$ | 0,5657 |
| $P'_{d,C'}$ | 0,2503 |
| $P'_{e,d}$ | 0,2353 |
| $P'_{g,F'}$ | 0,4958 |
| $P'_{i,h}$ | 0,8199 |

Abweichung rel. Teildisp.

ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0,0373 |
| $\Delta P_{C,s}$ | 0,0173 |
| $\Delta P_{F,e}$ | -0,0033 |
| $\Delta P_{g,F}$ | -0,0100 |
| $\Delta P_{i,g}$ | -0,0496 |

Chemische Eigenschaften

| | |
|------|-----|
| CR | 1 |
| FR | 1 |
| SR | 3,4 |
| AR | 1,2 |
| PR | 1 |
| SR-J | 6 |
| WR-J | 4 |

Sonstige Eigenschaften

| | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 7,3 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 8,2 |
| T_g [°C] | 536 |
| T_{10}^{13} [°C] | 541 |
| $T_{10}^{7,6}$ [°C] | 664 |
| c_p [J/(g·K)] | 0,760 |
| λ [W/(m·K)] | 0,840 |
| AT [°C] | 597 |
| ρ [g/cm ³] | 3,00 |
| E [10 ³ N/mm ²] | 78 |
| μ | 0,241 |
| K [10 ⁻⁶ mm ² /N] | 3,90 |
| HK _{0,1/20} | 520 |
| HG | 3 |
| Abrasion Aa | 130 |