

N-SF6 805254.337

$n_d = 1,80518$

$v_d = 25,36$

$n_F - n_C = 0,031750$

$n_e = 1,81266$

$v_e = 25,16$

$n_F - n_C = 0,032304$

Brechzahlen

| | λ [nm] | |
|--------------|----------------|---------|
| $n_{2325,4}$ | 2325,4 | 1,74895 |
| $n_{1970,1}$ | 1970,1 | 1,75541 |
| $n_{1529,6}$ | 1529,6 | 1,76307 |
| $n_{1060,0}$ | 1060,0 | 1,77341 |
| n_t | 1014,0 | 1,77486 |
| n_s | 852,1 | 1,78144 |
| n_r | 706,5 | 1,79114 |
| n_C | 656,3 | 1,79608 |
| $n_{C'}$ | 643,8 | 1,79749 |
| $n_{632,8}$ | 632,8 | 1,79883 |
| n_D | 589,3 | 1,80491 |
| n_d | 587,6 | 1,80518 |
| n_e | 546,1 | 1,81266 |
| n_F | 486,1 | 1,82783 |
| $n_{F'}$ | 480,0 | 1,82980 |
| n_g | 435,8 | 1,84738 |
| n_h | 404,7 | 1,86506 |
| n_i | 365,0 | |
| $n_{334,1}$ | 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 | 1,779317630 |
| B_2 | 0,338149866 |
| B_3 | 2,087344740 |
| C_1 | 0,01337141820 |
| C_2 | 0,0617533621 |
| C_3 | 174,0175900 |

Konstanten der Formel für dn/dT

| | |
|----------------------------------|-----------|
| D_0 | -4,93E-06 |
| D_1 | 7,02E-09 |
| D_2 | -2,40E-11 |
| E_0 | 9,84E-07 |
| E_1 | 1,54E-09 |
| λ_{TK} [μm] | 0,290 |

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

Reintransmissionsgrad τ_i

| λ [nm] | τ_i [10mm] | τ_i [25mm] |
|----------------|-----------------|-----------------|
| 2500 | 0,780 | 0,530 |
| 2325 | 0,810 | 0,590 |
| 1970 | 0,940 | 0,860 |
| 1530 | 0,991 | 0,978 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,993 | 0,983 |
| 660 | 0,990 | 0,976 |
| 620 | 0,991 | 0,978 |
| 580 | 0,992 | 0,980 |
| 546 | 0,989 | 0,972 |
| 500 | 0,977 | 0,940 |
| 460 | 0,961 | 0,910 |
| 436 | 0,950 | 0,870 |
| 420 | 0,920 | 0,810 |
| 405 | 0,860 | 0,680 |
| 400 | 0,820 | 0,610 |
| 390 | 0,700 | 0,410 |
| 380 | 0,480 | 0,160 |
| 370 | 0,160 | 0,010 |
| 365 | 0,000 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

Farbcode

λ_{80} / λ_5 45/37

Bemerkungen

Relative Teildispersionen P

| | |
|-----------|--------|
| $P_{s,t}$ | 0,2074 |
| $P_{C,s}$ | 0,4610 |
| $P_{d,C}$ | 0,2867 |
| $P_{e,d}$ | 0,2356 |
| $P_{g,F}$ | 0,6158 |
| $P_{i,h}$ | |

Relative Teildispersionen P'

| | |
|-------------|--------|
| $P'_{s,t}$ | 0,2039 |
| $P'_{C',s}$ | 0,4969 |
| $P'_{d,C'}$ | 0,2380 |
| $P'_{e,d}$ | 0,2315 |
| $P'_{g,F'}$ | 0,5443 |
| $P'_{i,h}$ | |

Abweichung rel. Teildisp.

ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0,0031 |
| $\Delta P_{C,s}$ | -0,0010 |
| $\Delta P_{F,e}$ | 0,0027 |
| $\Delta P_{g,F}$ | 0,0146 |
| $\Delta P_{i,g}$ | |

Chemische Eigenschaften

| | |
|----|---|
| CR | 1 |
| FR | 0 |
| SR | 2 |
| AR | 1 |
| PR | 1 |

Sonstige Eigenschaften

| | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 9,0 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 10,3 |
| T_g [°C] | 589 |
| T_{10}^{13} [°C] | 593 |
| $T_{10}^{7,6}$ [°C] | 669 |
| c_p [J/(g·K)] | 0,690 |
| λ [W/(m·K)] | 0,960 |
| ρ [g/cm ³] | 3,37 |
| E [10^3 N/mm ²] | 93 |
| μ | 0,262 |
| K [10^{-6} mm ² /N] | 2,82 |
| HK _{0,1/20} | 550 |
| HG | 4 |