

SF6 805254.518

$n_d = 1,80518$
 $n_e = 1,81265$

$v_d = 25,43$
 $v_e = 25,24$

$n_F - n_C = 0,031660$
 $n_{F'} - n_{C'} = 0,032201$

Brechzahlen

| | λ [nm] | |
|--------------|----------------|---------|
| $n_{2325,4}$ | 2325,4 | 1,75302 |
| $n_{1970,1}$ | 1970,1 | 1,75813 |
| $n_{1529,6}$ | 1529,6 | 1,76444 |
| $n_{1060,0}$ | 1060,0 | 1,77380 |
| n_t | 1014,0 | 1,77517 |
| n_s | 852,1 | 1,78157 |
| n_r | 706,5 | 1,79117 |
| n_C | 656,3 | 1,79609 |
| $n_{C'}$ | 643,8 | 1,79750 |
| $n_{632,8}$ | 632,8 | 1,79884 |
| n_D | 589,3 | 1,80491 |
| n_d | 587,6 | 1,80518 |
| n_e | 546,1 | 1,81265 |
| n_F | 486,1 | 1,82775 |
| $n_{F'}$ | 480,0 | 1,82970 |
| n_g | 435,8 | 1,84707 |
| n_h | 404,7 | 1,86436 |
| n_i | 365,0 | 1,89703 |
| $n_{334,1}$ | 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 | 1,724484820 |
| B_2 | 0,390104889 |
| B_3 | 1,045728580 |
| C_1 | 0,01348719470 |
| C_2 | 0,0569318095 |
| C_3 | 118,5571850 |

Konstanten der Formel für dn/dT

| | |
|----------------------------------|-----------|
| D_0 | 6,69E-06 |
| D_1 | 1,78E-08 |
| D_2 | -3,36E-11 |
| E_0 | 1,77E-06 |
| E_1 | 1,70E-09 |
| λ_{TK} [μm] | 0,269 |

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 | 6,1 | 9,9 | 14,5 | 3,7 | 7,4 | 11,9 |
| +20/+40 | 6,8 | 11,1 | 16,2 | 5,3 | 9,5 | 14,6 |
| +60/+80 | 7,3 | 11,8 | 17,4 | 6,1 | 10,6 | 16,1 |

Reintransmissionsgrad τ_i

| λ [nm] | τ_i [10mm] | τ_i [25mm] |
|----------------|-----------------|-----------------|
| 2500 | 0,890 | 0,740 |
| 2325 | 0,910 | 0,790 |
| 1970 | 0,971 | 0,930 |
| 1530 | 0,996 | 0,991 |
| 1060 | 0,999 | 0,999 |
| 700 | 0,999 | 0,997 |
| 660 | 0,998 | 0,996 |
| 620 | 0,998 | 0,995 |
| 580 | 0,999 | 0,996 |
| 546 | 0,998 | 0,996 |
| 500 | 0,996 | 0,991 |
| 460 | 0,991 | 0,978 |
| 436 | 0,982 | 0,955 |
| 420 | 0,967 | 0,920 |
| 405 | 0,930 | 0,840 |
| 400 | 0,920 | 0,800 |
| 390 | 0,850 | 0,660 |
| 380 | 0,720 | 0,440 |
| 370 | 0,440 | 0,130 |
| 365 | 0,250 | 0,030 |
| 350 | 0,000 | 0,000 |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

Farbcode

λ_{80} / λ_5 42/36

Bemerkungen

Bleihaltige Glasart

Relative Teildispersionen P

| | |
|-----------|--------|
| $P_{s,t}$ | 0,2020 |
| $P_{C,s}$ | 0,4588 |
| $P_{d,C}$ | 0,2871 |
| $P_{e,d}$ | 0,2359 |
| $P_{g,F}$ | 0,6102 |
| $P_{i,h}$ | 1,0316 |

Relative Teildispersionen P'

| | |
|-------------|--------|
| $P'_{s,t}$ | 0,1986 |
| $P'_{C',s}$ | 0,4950 |
| $P'_{d,C'}$ | 0,2384 |
| $P'_{e,d}$ | 0,2319 |
| $P'_{g,F'}$ | 0,5393 |
| $P'_{i,h}$ | 1,0143 |

Abweichung rel. Teildisp.

ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | -0,0048 |
| $\Delta P_{C,s}$ | -0,0033 |
| $\Delta P_{F,e}$ | 0,0020 |
| $\Delta P_{g,F}$ | 0,0092 |
| $\Delta P_{i,g}$ | 0,0669 |

Chemische Eigenschaften

| | |
|----|------|
| CR | 2 |
| FR | 3 |
| SR | 51,3 |
| AR | 2,3 |
| PR | 3,3 |

Sonstige Eigenschaften

| | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 8,1 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 9,0 |
| T_g [°C] | 423 |
| T_{10}^{13} [°C] | 410 |
| $T_{10}^{7,6}$ [°C] | 538 |
| c_p [J/(g·K)] | 0,389 |
| λ [W/(m·K)] | 0,673 |
| ρ [g/cm ³] | 5,18 |
| E [10^3 N/mm ²] | 55 |
| μ | 0,244 |
| K [10^{-6} mm ² /N] | 0,65 |
| $HK_{0,1/20}$ | 370 |
| HG | 1 |