

N-SK14 603606.343

$n_d = 1,60311$

$v_d = 60,60$

$n_F - n_C = 0,009953$

$n_e = 1,60548$

$v_e = 60,34$

$n_F - n_C = 0,010034$

Brechzahlen

| | λ [nm] | |
|--------------|----------------|---------|
| $n_{2325,4}$ | 2325,4 | 1,57336 |
| $n_{1970,1}$ | 1970,1 | 1,57903 |
| $n_{1529,6}$ | 1529,6 | 1,58502 |
| $n_{1060,0}$ | 1060,0 | 1,59113 |
| n_t | 1014,0 | 1,59182 |
| n_s | 852,1 | 1,59467 |
| n_r | 706,5 | 1,59834 |
| n_C | 656,3 | 1,60008 |
| $n_{C'}$ | 643,8 | 1,60056 |
| $n_{632,8}$ | 632,8 | 1,60101 |
| n_D | 589,3 | 1,60302 |
| n_d | 587,6 | 1,60311 |
| n_e | 546,1 | 1,60548 |
| n_F | 486,1 | 1,61003 |
| $n_{F'}$ | 480,0 | 1,61059 |
| n_g | 435,8 | 1,61542 |
| n_h | 404,7 | 1,61988 |
| n_i | 365,0 | 1,62748 |
| $n_{334,1}$ | 334,1 | 1,63564 |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

Konstanten der Dispersionsformel

| | |
|-------|---------------|
| B_1 | 0,936155374 |
| B_2 | 0,594052018 |
| B_3 | 1,043745830 |
| C_1 | 0,00461716525 |
| C_2 | 0,0168859270 |
| C_3 | 103,7362650 |

Konstanten der Formel für dn/dT

| | |
|----------------------------------|-----------|
| D_0 | 1,58E-06 |
| D_1 | 1,22E-08 |
| D_2 | -8,04E-12 |
| E_0 | 4,46E-07 |
| E_1 | 5,22E-10 |
| λ_{TK} [μm] | 0,150 |

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

Reintransmissionsgrad τ_i

| λ [nm] | τ_i [10mm] | τ_i [25mm] |
|----------------|-----------------|-----------------|
| 2500 | 0,68 | 0,38 |
| 2325 | 0,83 | 0,63 |
| 1970 | 0,959 | 0,90 |
| 1530 | 0,992 | 0,980 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,998 | 0,995 |
| 660 | 0,998 | 0,995 |
| 620 | 0,998 | 0,995 |
| 580 | 0,998 | 0,995 |
| 546 | 0,998 | 0,995 |
| 500 | 0,997 | 0,993 |
| 460 | 0,995 | 0,988 |
| 436 | 0,994 | 0,985 |
| 420 | 0,993 | 0,983 |
| 405 | 0,991 | 0,978 |
| 400 | 0,990 | 0,975 |
| 390 | 0,988 | 0,970 |
| 380 | 0,981 | 0,952 |
| 370 | 0,971 | 0,93 |
| 365 | 0,963 | 0,91 |
| 350 | 0,91 | 0,79 |
| 334 | 0,77 | 0,52 |
| 320 | 0,55 | 0,22 |
| 310 | 0,35 | 0,07 |
| 300 | 0,16 | |
| 290 | 0,04 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

Farbcode

λ_{80} / λ_5 35/29

Bemerkungen

Relative Teildispersionen P

| | |
|-----------|--------|
| $P_{s,t}$ | 0,2864 |
| $P_{C,s}$ | 0,5427 |
| $P_{d,C}$ | 0,3049 |
| $P_{e,d}$ | 0,2385 |
| $P_{g,F}$ | 0,5415 |
| $P_{i,h}$ | 0,7631 |

Relative Teildispersionen P'

| | |
|-------------|--------|
| $P'_{s,t}$ | 0,2841 |
| $P'_{C',s}$ | 0,5865 |
| $P'_{d,C'}$ | 0,2542 |
| $P'_{e,d}$ | 0,2366 |
| $P'_{g,F'}$ | 0,4808 |
| $P'_{i,h}$ | 0,7569 |

Abweichung rel. Teildisp.

ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | -0,0033 |
| $\Delta P_{C,s}$ | -0,0015 |
| $\Delta P_{F,e}$ | 0,0000 |
| $\Delta P_{g,F}$ | -0,0003 |
| $\Delta P_{i,g}$ | -0,0044 |

Chemische Eigenschaften

| | |
|----|------|
| CR | 4 |
| FR | 2 |
| SR | 51,3 |
| AR | 2 |
| PR | 2,3 |

Sonstige Eigenschaften

| | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 6,0 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 7,0 |
| T_g [°C] | 654 |
| T_{10}^{13} [°C] | 638 |
| $T_{10}^{7,6}$ [°C] | 773 |
| c_p [J/(g·K)] | 0,636 |
| λ [W/(m·K)] | 0,851 |
| ρ [g/cm ³] | 3,43 |
| E [10^3 N/mm ²] | 86 |
| μ | 0,261 |
| K [10^{-6} mm ² /N] | 2,00 |
| HK _{0,1/20} | 600 |
| HG | 3 |