

N-LAK10 720506.369

$n_d = 1.72003$

$v_d = 50.62$

$n_F - n_C = 0.014224$

$n_e = 1.72341$

$v_e = 50.39$

$n_F - n_C = 0.014357$

Refractive Indices

| | λ [nm] | |
|--------------|----------------|---------|
| $n_{2325.4}$ | 2325.4 | 1.67890 |
| $n_{1970.1}$ | 1970.1 | 1.68670 |
| $n_{1529.6}$ | 1529.6 | 1.69488 |
| $n_{1060.0}$ | 1060.0 | 1.70324 |
| n_t | 1014.0 | 1.70419 |
| n_s | 852.1 | 1.70815 |
| n_r | 706.5 | 1.71328 |
| n_C | 656.3 | 1.71572 |
| $n_{C'}$ | 643.8 | 1.71641 |
| $n_{632.8}$ | 632.8 | 1.71705 |
| n_D | 589.3 | 1.71990 |
| n_d | 587.6 | 1.72003 |
| n_e | 546.1 | 1.72341 |
| n_F | 486.1 | 1.72995 |
| $n_{F'}$ | 480.0 | 1.73077 |
| n_g | 435.8 | 1.73779 |
| n_h | 404.7 | 1.74438 |
| n_i | 365.0 | 1.75578 |
| $n_{334.1}$ | 334.1 | |
| $n_{312.6}$ | 312.6 | |
| $n_{296.7}$ | 296.7 | |
| $n_{280.4}$ | 280.4 | |
| $n_{248.3}$ | 248.3 | |

Constants of Dispersion Formula

| | |
|-------|--------------|
| B_1 | 1.728780170 |
| B_2 | 0.169257825 |
| B_3 | 1.193869560 |
| C_1 | 0.008860146 |
| C_2 | 0.0363416509 |
| C_3 | 82.90090690 |

Constants of Formula for dn/dT

| | |
|----------------------------------|-----------|
| D_0 | 4.10E-06 |
| D_1 | 1.23E-08 |
| D_2 | -7.85E-12 |
| E_0 | 5.08E-07 |
| E_1 | 5.76E-10 |
| λ_{TK} [μm] | 0.205 |

Temperature Coefficients of the Refractive Index

| [°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 | 4.1 | 5.0 | 5.8 | 1.8 | 2.6 | 3.4 |
| +20/+40 | 4.2 | 5.1 | 6.1 | 2.7 | 3.6 | 4.6 |
| +60/+80 | 4.4 | 5.4 | 6.5 | 3.2 | 4.3 | 5.3 |

Internal Transmittance τ_i

| λ [nm] | τ_i [10mm] | τ_i [25mm] |
|----------------|-----------------|-----------------|
| 2500 | 0.430 | 0.120 |
| 2325 | 0.720 | 0.440 |
| 1970 | 0.950 | 0.880 |
| 1530 | 0.991 | 0.977 |
| 1060 | 0.998 | 0.995 |
| 700 | 0.998 | 0.995 |
| 660 | 0.998 | 0.994 |
| 620 | 0.998 | 0.994 |
| 580 | 0.997 | 0.993 |
| 546 | 0.998 | 0.994 |
| 500 | 0.995 | 0.988 |
| 460 | 0.991 | 0.977 |
| 436 | 0.988 | 0.970 |
| 420 | 0.980 | 0.951 |
| 405 | 0.970 | 0.930 |
| 400 | 0.964 | 0.910 |
| 390 | 0.950 | 0.880 |
| 380 | 0.920 | 0.810 |
| 370 | 0.860 | 0.690 |
| 365 | 0.800 | 0.580 |
| 350 | 0.500 | 0.180 |
| 334 | 0.060 | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

Color Code

λ_{80} / λ_5 38/33

Remarks

Relative Partial Dispersion P

| | |
|-----------|--------|
| $P_{s,t}$ | 0.2779 |
| $P_{C,s}$ | 0.5328 |
| $P_{d,C}$ | 0.3025 |
| $P_{e,d}$ | 0.2381 |
| $P_{g,F}$ | 0.5515 |
| $P_{i,h}$ | 0.8015 |

Relative Partial Dispersion P'

| | |
|-------------|--------|
| $P'_{s,t}$ | 0.2753 |
| $P'_{C,s}$ | 0.5755 |
| $P'_{d,C'}$ | 0.2521 |
| $P'_{e,d}$ | 0.2359 |
| $P'_{g,F'}$ | 0.4894 |
| $P'_{i,h}$ | 0.7941 |

Deviation of Rel. Partial Disp.

ΔP from the normal line

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0256 |
| $\Delta P_{C,s}$ | 0.0119 |
| $\Delta P_{F,e}$ | -0.0024 |
| $\Delta P_{g,F}$ | -0.0072 |
| $\Delta P_{i,g}$ | -0.0354 |

Chemical Properties

| | |
|----|------|
| CR | 2 |
| FR | 2 |
| SR | 52.3 |
| AR | 1 |
| PR | 3 |

Other Properties

| | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 5.7 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 6.8 |
| T_g [°C] | 636 |
| T_{10}^{13} [°C] | 631 |
| $T_{10}^{7.6}$ [°C] | 714 |
| c_p [J/(g·K)] | 0.640 |
| λ [W/(m·K)] | 0.860 |
| ρ [g/cm ³] | 3.69 |
| E [10^3 N/mm ²] | 116 |
| μ | 0.286 |
| K [10^{-6} mm ² /N] | 1.97 |
| $HK_{0.1/20}$ | 780 |
| HG | 2 |