

N-LAK9 691547.351

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.69100$ | $v_d = 54.71$ | $n_F - n_C = 0.012631$ |
| $n_e = 1.69401$ | $v_e = 54.48$ | $n_{F'} - n_{C'} = 0.012738$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.65294 |
| $n_{1970.1}$ | 1970.1 | 1.66032 |
| $n_{1529.6}$ | 1529.6 | 1.66804 |
| $n_{1060.0}$ | 1060.0 | 1.67584 |
| n_t | 1014.0 | 1.67672 |
| n_s | 852.1 | 1.68033 |
| n_r | 706.5 | 1.68497 |
| n_C | 656.3 | 1.68716 |
| $n_{C'}$ | 643.8 | 1.68777 |
| $n_{632.8}$ | 632.8 | 1.68834 |
| n_D | 589.3 | 1.69089 |
| n_d | 587.6 | 1.69100 |
| n_e | 546.1 | 1.69401 |
| n_F | 486.1 | 1.69979 |
| $n_{F'}$ | 480.0 | 1.70051 |
| n_g | 435.8 | 1.70667 |
| n_h | 404.7 | 1.71239 |
| n_i | 365.0 | 1.72219 |
| $n_{334.1}$ | 334.1 | 1.73281 |
| $n_{312.6}$ | 312.6 | |
| $n_{296.7}$ | 296.7 | |
| $n_{280.4}$ | 280.4 | |
| $n_{248.3}$ | 248.3 | |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0.455 | 0.140 |
| 2325 | 0.707 | 0.420 |
| 1970 | 0.941 | 0.860 |
| 1530 | 0.986 | 0.966 |
| 1060 | 0.998 | 0.995 |
| 700 | 0.998 | 0.996 |
| 660 | 0.998 | 0.995 |
| 620 | 0.998 | 0.995 |
| 580 | 0.998 | 0.994 |
| 546 | 0.998 | 0.994 |
| 500 | 0.997 | 0.992 |
| 460 | 0.994 | 0.984 |
| 436 | 0.991 | 0.977 |
| 420 | 0.988 | 0.970 |
| 405 | 0.983 | 0.957 |
| 400 | 0.980 | 0.950 |
| 390 | 0.971 | 0.930 |
| 380 | 0.954 | 0.890 |
| 370 | 0.928 | 0.830 |
| 365 | 0.906 | 0.782 |
| 350 | 0.787 | 0.550 |
| 334 | 0.525 | 0.200 |
| 320 | 0.209 | 0.020 |
| 310 | 0.070 | |
| 300 | 0.014 | |
| 290 | 0.001 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2859 |
| $P_{C,s}$ | 0.5409 |
| $P_{d,C}$ | 0.3043 |
| $P_{e,d}$ | 0.2384 |
| $P_{g,F}$ | 0.5447 |
| $P_{i,h}$ | 0.7756 |
| | |
| $P'_{s,t}$ | 0.2834 |
| $P'_{C',s}$ | 0.5844 |
| $P'_{d,C'}$ | 0.2536 |
| $P'_{e,d}$ | 0.2363 |
| $P'_{g,F'}$ | 0.4835 |
| $P'_{i,h}$ | 0.7690 |

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0223 |
| $\Delta P_{C,s}$ | 0.0105 |
| $\Delta P_{F,e}$ | -0.0023 |
| $\Delta P_{g,F}$ | -0.0071 |
| $\Delta P_{i,g}$ | -0.0367 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.46231905 |
| B_2 | 0.344399589 |
| B_3 | 1.15508372 |
| C_1 | 0.00724270156 |
| C_2 | 0.0243353131 |
| C_3 | 85.4686868 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $2.11 \cdot 10^{-6}$ |
| D_1 | $1.11 \cdot 10^{-8}$ |
| D_2 | $1.82 \cdot 10^{-12}$ |
| E_0 | $4.74 \cdot 10^{-7}$ |
| E_1 | $-3.47 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0.146 |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 37/31 |
| (* = λ_{70}/λ_5) | |

| Remarks | |
|--------------------|--|
| step 0.5 available | |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6.3 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7.5 |
| $T_g [^\circ C]$ | 656 |
| $T_{10}^{13.0} [^\circ C]$ | 645 |
| $T_{10}^{7.6} [^\circ C]$ | 722 |
| $c_p [J/(g \cdot K)]$ | 0.649 |
| $\lambda [W/(m \cdot K)]$ | 0.908 |
| | |
| $\rho [g/cm^3]$ | 3.51 |
| $E [10^3 N/mm^2]$ | 110 |
| μ | 0.285 |
| $K [10^{-6} mm^2/N]$ | 1.83 |
| $HK_{0.1/20}$ | 700 |
| HG | 3 |
| | |
| | |
| | |
| | |
| CR | 3 |
| FR | 3 |
| SR | 52 |
| AR | 1.2 |
| PR | 4.3 |

| Temperature Coefficients of Refractive Index | | | | | | |
|--|---------------------------------------|-----|-----|---------------------------------------|-----|-----|
| [$^\circ C$] | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| | 1060.0 | e | g | 1060.0 | e | g |
| -40/ -20 | 3.0 | 3.9 | 4.6 | 0.8 | 1.6 | 2.3 |
| +20/ +40 | 2.9 | 3.7 | 4.4 | 1.5 | 2.2 | 2.9 |
| +60/ +80 | 3.1 | 3.8 | 4.4 | 2.0 | 2.7 | 3.3 |