

N-SF57
847238.353

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.84666$ | $v_d = 23.78$ | $n_F - n_C = 0.035604$ |
| $n_e = 1.85504$ | $v_e = 23.59$ | $n_{F'} - n_{C'} = 0.036247$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.78502 |
| $n_{1970.1}$ | 1970.1 | 1.79190 |
| $n_{1529.6}$ | 1529.6 | 1.80011 |
| $n_{1060.0}$ | 1060.0 | 1.81138 |
| n_t | 1014.0 | 1.81296 |
| n_s | 852.1 | 1.82023 |
| n_r | 706.5 | 1.83099 |
| n_C | 656.3 | 1.83650 |
| $n_{C'}$ | 643.8 | 1.83807 |
| $n_{632.8}$ | 632.8 | 1.83956 |
| n_D | 589.3 | 1.84635 |
| n_d | 587.6 | 1.84666 |
| n_e | 546.1 | 1.85504 |
| n_F | 486.1 | 1.87210 |
| $n_{F'}$ | 480.0 | 1.87432 |
| n_g | 435.8 | 1.89423 |
| n_h | 404.7 | 1.91440 |
| 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 | |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0.806 | 0.584 |
| 2325 | 0.838 | 0.642 |
| 1970 | 0.956 | 0.893 |
| 1530 | 0.992 | 0.980 |
| 1060 | 0.999 | 0.997 |
| 700 | 0.991 | 0.977 |
| 660 | 0.987 | 0.969 |
| 620 | 0.988 | 0.971 |
| 580 | 0.990 | 0.975 |
| 546 | 0.986 | 0.965 |
| 500 | 0.971 | 0.930 |
| 460 | 0.949 | 0.877 |
| 436 | 0.919 | 0.810 |
| 420 | 0.872 | 0.710 |
| 405 | 0.782 | 0.540 |
| 400 | 0.733 | 0.460 |
| 390 | 0.574 | 0.250 |
| 380 | 0.302 | 0.050 |
| 370 | 0.063 | 0.001 |
| 365 | 0.003 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2042 |
| $P_{C,s}$ | 0.4568 |
| $P_{d,C}$ | 0.2855 |
| $P_{e,d}$ | 0.2353 |
| $P_{g,F}$ | 0.6216 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2005 |
| $P'_{C',s}$ | 0.4922 |
| $P'_{d,C'}$ | 0.2369 |
| $P'_{e,d}$ | 0.2311 |
| $P'_{g,F'}$ | 0.5493 |
| $P'_{i,h}$ | |

| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | |
|---|---------|
| $\Delta P_{C,t}$ | 0.0032 |
| $\Delta P_{C,s}$ | -0.0015 |
| $\Delta P_{F,e}$ | 0.0033 |
| $\Delta P_{g,F}$ | 0.0178 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 1.87543831 |
| B_2 | 0.37375749 |
| B_3 | 2.30001797 |
| C_1 | 0.0141749518 |
| C_2 | 0.0640509927 |
| C_3 | 177.389795 |

| Color Code | |
|--------------------------------|--------|
| λ_{80}/λ_5 | 42/37* |
| (*= λ_{70}/λ_5) | |

| Remarks |
|---------|
| |

| Other Properties | |
|--|-------|
| $\alpha_{-30/+70^\circ\text{C}} [10^{-6}/\text{K}]$ | 8.5 |
| $\alpha_{+20/+300^\circ\text{C}} [10^{-6}/\text{K}]$ | 9.9 |
| $T_g [^\circ\text{C}]$ | 629 |
| $T_{10}^{13.0} [^\circ\text{C}]$ | 616 |
| $T_{10}^{7.6} [^\circ\text{C}]$ | 716 |
| $c_p [\text{J}/(\text{g}\cdot\text{K})]$ | 0.660 |
| $\lambda [\text{W}/(\text{m}\cdot\text{K})]$ | 0.990 |
| $\rho [\text{g}/\text{cm}^3]$ | 3.53 |
| $E [10^3 \text{N}/\text{mm}^2]$ | 96 |
| μ | 0.260 |
| $K [10^{-6} \text{mm}^2/\text{N}]$ | 2.78 |
| $\text{HK}_{0.1/20}$ | 520 |
| HG | 4 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |

| Temperature Coefficients of Refractive Index | | | | | | |
|--|---|-----|-----|---|------|-----|
| [$^\circ\text{C}$] | $\Delta n_{\text{rel}}/\Delta T [10^{-6}/\text{K}]$ | | | $\Delta n_{\text{abs}}/\Delta T [10^{-6}/\text{K}]$ | | |
| | 1060.0 | e | g | 1060.0 | e | g |
| -40/ -20 | -0.5 | 1.7 | 4.9 | -2.9 | -0.8 | 2.3 |
| +20/ +40 | -0.5 | 2.2 | 6.0 | -2.1 | 0.6 | 4.3 |
| +60/ +80 | -0.4 | 2.6 | 6.9 | -1.6 | 1.3 | 5.6 |