

N-LAF7 749348.373

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.74950$ | $v_d = 34.82$ | $n_F - n_C = 0.021525$ |
| $n_e = 1.75459$ | $v_e = 34.56$ | $n_{F'} - n_{C'} = 0.021833$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.70344 |
| $n_{1970.1}$ | 1970.1 | 1.71021 |
| $n_{1529.6}$ | 1529.6 | 1.71772 |
| $n_{1060.0}$ | 1060.0 | 1.72659 |
| n_t | 1014.0 | 1.72773 |
| n_s | 852.1 | 1.73272 |
| n_r | 706.5 | 1.73972 |
| n_C | 656.3 | 1.74320 |
| $n_{C'}$ | 643.8 | 1.74419 |
| $n_{632.8}$ | 632.8 | 1.74511 |
| n_D | 589.3 | 1.74931 |
| n_d | 587.6 | 1.74950 |
| n_e | 546.1 | 1.75459 |
| n_F | 486.1 | 1.76472 |
| $n_{F'}$ | 480.0 | 1.76602 |
| n_g | 435.8 | 1.77741 |
| n_h | 404.7 | 1.78854 |
| 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 | 0.679 | 0.380 |
| 2325 | 0.867 | 0.700 |
| 1970 | 0.976 | 0.940 |
| 1530 | 0.996 | 0.990 |
| 1060 | 0.998 | 0.996 |
| 700 | 0.997 | 0.992 |
| 660 | 0.995 | 0.988 |
| 620 | 0.994 | 0.985 |
| 580 | 0.992 | 0.980 |
| 546 | 0.988 | 0.970 |
| 500 | 0.971 | 0.930 |
| 460 | 0.937 | 0.850 |
| 436 | 0.901 | 0.770 |
| 420 | 0.857 | 0.680 |
| 405 | 0.782 | 0.540 |
| 400 | 0.752 | 0.490 |
| 390 | 0.657 | 0.350 |
| 380 | 0.515 | 0.190 |
| 370 | 0.302 | 0.050 |
| 365 | 0.170 | 0.012 |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2317 |
| $P_{C,s}$ | 0.4870 |
| $P_{d,C}$ | 0.2928 |
| $P_{e,d}$ | 0.2366 |
| $P_{g,F}$ | 0.5894 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2284 |
| $P'_{C',s}$ | 0.5254 |
| $P'_{d,C'}$ | 0.2434 |
| $P'_{e,d}$ | 0.2333 |
| $P'_{g,F'}$ | 0.5218 |
| $P'_{i,h}$ | |

| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | |
|---|--------|
| $\Delta P_{C,t}$ | 0.0085 |
| $\Delta P_{C,s}$ | 0.0029 |
| $\Delta P_{F,e}$ | 0.0005 |
| $\Delta P_{g,F}$ | 0.0042 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 1.74028764 |
| B_2 | 0.226710554 |
| B_3 | 1.32525548 |
| C_1 | 0.010792558 |
| C_2 | 0.0538626639 |
| C_3 | 106.268665 |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 46/36 |
| (* = λ_{70}/λ_5) | |

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

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $9.21 \cdot 10^{-7}$ |
| D_1 | $1.10 \cdot 10^{-8}$ |
| D_2 | $-1.75 \cdot 10^{-11}$ |
| E_0 | $7.67 \cdot 10^{-7}$ |
| E_1 | $1.10 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0.264 |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7.3 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8.4 |
| $T_g [^\circ C]$ | 568 |
| $T_{10}^{13.0} [^\circ C]$ | 563 |
| $T_{10}^{7.6} [^\circ C]$ | 669 |
| $c_p [J/(g \cdot K)]$ | 0.620 |
| $\lambda [W/(m \cdot K)]$ | 0.830 |
| $\rho [g/cm^3]$ | 3.73 |
| $E [10^3 N/mm^2]$ | 96 |
| μ | 0.271 |
| $K [10^{-6} mm^2/N]$ | 2.57 |
| $HK_{0.1/20}$ | 530 |
| HG | 5 |
| CR | 1 |
| FR | 2 |
| SR | 51.3 |
| AR | 1.2 |
| PR | 1.2 |

| 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 | 2.5 | 3.9 | 5.6 | 0.2 | 1.5 | 3.1 |
| +20/ +40 | 2.6 | 4.3 | 6.3 | 1.1 | 2.7 | 4.7 |
| +60/ +80 | 2.7 | 4.6 | 6.8 | 1.6 | 3.4 | 5.6 |