

N-LASF31A 883408.551

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.88300$ | $v_d = 40.76$ | $n_F - n_C = 0.021663$ |
| $n_e = 1.88815$ | $v_e = 40.52$ | $n_{F'} - n_{C'} = 0.021921$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.83590 |
| $n_{1970.1}$ | 1970.1 | 1.84267 |
| $n_{1529.6}$ | 1529.6 | 1.85026 |
| $n_{1060.0}$ | 1060.0 | 1.85937 |
| n_t | 1014.0 | 1.86054 |
| n_s | 852.1 | 1.86572 |
| n_r | 706.5 | 1.87298 |
| n_C | 656.3 | 1.87656 |
| $n_{C'}$ | 643.8 | 1.87757 |
| $n_{632.8}$ | 632.8 | 1.87853 |
| n_D | 589.3 | 1.88281 |
| n_d | 587.6 | 1.88300 |
| n_e | 546.1 | 1.88815 |
| n_F | 486.1 | 1.89822 |
| $n_{F'}$ | 480.0 | 1.89950 |
| n_g | 435.8 | 1.91050 |
| n_h | 404.7 | 1.92093 |
| n_i | 365.0 | 1.93920 |
| $n_{334.1}$ | 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 | 0.636 | 0.323 |
| 2325 | 0.824 | 0.616 |
| 1970 | 0.963 | 0.910 |
| 1530 | 0.993 | 0.983 |
| 1060 | 0.998 | 0.995 |
| 700 | 0.997 | 0.992 |
| 660 | 0.996 | 0.991 |
| 620 | 0.996 | 0.990 |
| 580 | 0.996 | 0.990 |
| 546 | 0.996 | 0.990 |
| 500 | 0.991 | 0.978 |
| 460 | 0.980 | 0.950 |
| 436 | 0.970 | 0.927 |
| 420 | 0.960 | 0.903 |
| 405 | 0.942 | 0.862 |
| 400 | 0.933 | 0.841 |
| 390 | 0.905 | 0.780 |
| 380 | 0.860 | 0.685 |
| 370 | 0.782 | 0.540 |
| 365 | 0.729 | 0.453 |
| 350 | 0.488 | 0.166 |
| 334 | 0.129 | 0.006 |
| 320 | 0.060 | |
| 310 | 0.001 | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2391 |
| $P_{C,s}$ | 0.5004 |
| $P_{d,C}$ | 0.2972 |
| $P_{e,d}$ | 0.2377 |
| $P_{g,F}$ | 0.5667 |
| $P_{i,h}$ | 0.8436 |
| | |
| $P'_{s,t}$ | 0.2363 |
| $P'_{C',s}$ | 0.5407 |
| $P'_{d,C'}$ | 0.2475 |
| $P'_{e,d}$ | 0.2349 |
| $P'_{g,F'}$ | 0.5021 |
| $P'_{i,h}$ | 0.8337 |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0012 |
| $\Delta P_{C,s}$ | 0.0025 |
| $\Delta P_{F,e}$ | -0.0019 |
| $\Delta P_{g,F}$ | -0.0085 |
| $\Delta P_{i,g}$ | -0.0575 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.96485075 |
| B_2 | 0.475231259 |
| B_3 | 1.48360109 |
| C_1 | 0.00982060155 |
| C_2 | 0.0344713438 |
| C_3 | 110.739863 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $1.67 \cdot 10^{-6}$ |
| D_1 | $8.90 \cdot 10^{-9}$ |
| D_2 | $-8.73 \cdot 10^{-12}$ |
| E_0 | $7.47 \cdot 10^{-7}$ |
| E_1 | $7.46 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0.207 |

| Color Code | |
|--------------------------------|--------|
| λ_{80}/λ_5 | 38/33* |
| (*= λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6.7 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7.7 |
| $T_g [^\circ C]$ | 719 |
| $T_{10}^{13.0} [^\circ C]$ | 720 |
| $T_{10}^{7.6} [^\circ C]$ | 830 |
| $c_p [J/(g \cdot K)]$ | 0.440 |
| $\lambda [W/(m \cdot K)]$ | 0.790 |
| | |
| $\rho [g/cm^3]$ | 5.51 |
| $E [10^3 N/mm^2]$ | 126 |
| μ | 0.301 |
| $K [10^{-6} mm^2/N]$ | 1.18 |
| $HK_{0.1/20}$ | 650 |
| HG | 2 |
| | |
| | |
| | |
| | |
| CR | 1 |
| FR | 0 |
| SR | 2.3 |
| AR | 1 |
| PR | 1 |

| 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 | 3.4 | 4.8 | 6.3 | 0.9 | 2.3 | 3.7 |
| +20/ +40 | 3.3 | 4.9 | 6.6 | 1.7 | 3.3 | 4.9 |
| +60/ +80 | 3.4 | 5.2 | 6.9 | 2.2 | 3.9 | 5.6 |