

N-LASF46A 904313.445

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.90366$ | $v_d = 31.32$ | $n_F - n_C = 0.028853$ |
| $n_e = 1.91048$ | $v_e = 31.09$ | $n_{F'} - n_{C'} = 0.029287$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.84576 |
| $n_{1970.1}$ | 1970.1 | 1.85364 |
| $n_{1529.6}$ | 1529.6 | 1.86255 |
| $n_{1060.0}$ | 1060.0 | 1.87353 |
| n_t | 1014.0 | 1.87498 |
| n_s | 852.1 | 1.88143 |
| n_r | 706.5 | 1.89064 |
| n_C | 656.3 | 1.89526 |
| $n_{C'}$ | 643.8 | 1.89657 |
| $n_{632.8}$ | 632.8 | 1.89781 |
| n_D | 589.3 | 1.90341 |
| n_d | 587.6 | 1.90366 |
| n_e | 546.1 | 1.91048 |
| n_F | 486.1 | 1.92411 |
| $n_{F'}$ | 480.0 | 1.92586 |
| n_g | 435.8 | 1.94129 |
| n_h | 404.7 | 1.95645 |
| 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 | 0.556 | 0.230 |
| 2325 | 0.793 | 0.560 |
| 1970 | 0.954 | 0.890 |
| 1530 | 0.991 | 0.977 |
| 1060 | 0.999 | 0.997 |
| 700 | 0.996 | 0.989 |
| 660 | 0.994 | 0.985 |
| 620 | 0.993 | 0.983 |
| 580 | 0.993 | 0.982 |
| 546 | 0.991 | 0.978 |
| 500 | 0.980 | 0.950 |
| 460 | 0.959 | 0.900 |
| 436 | 0.937 | 0.850 |
| 420 | 0.905 | 0.780 |
| 405 | 0.847 | 0.660 |
| 400 | 0.815 | 0.600 |
| 390 | 0.707 | 0.420 |
| 380 | 0.504 | 0.180 |
| 370 | 0.181 | 0.014 |
| 365 | 0.050 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2236 |
| $P_{C,s}$ | 0.4793 |
| $P_{d,C}$ | 0.2912 |
| $P_{e,d}$ | 0.2364 |
| $P_{g,F}$ | 0.5953 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2203 |
| $P'_{C',s}$ | 0.5170 |
| $P'_{d,C'}$ | 0.2420 |
| $P'_{e,d}$ | 0.2329 |
| $P'_{g,F'}$ | 0.5268 |
| $P'_{i,h}$ | |

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

| | |
|------------------|--------|
| $\Delta P_{C,t}$ | 0.0094 |
| $\Delta P_{C,s}$ | 0.0034 |
| $\Delta P_{F,e}$ | 0.0005 |
| $\Delta P_{g,F}$ | 0.0042 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 2.16701566 |
| B_2 | 0.319812761 |
| B_3 | 1.66004486 |
| C_1 | 0.0123595524 |
| C_2 | 0.0560610282 |
| C_3 | 107.047718 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $3.53 \cdot 10^{-6}$ |
| D_1 | $1.24 \cdot 10^{-8}$ |
| D_2 | $-1.87 \cdot 10^{-11}$ |
| E_0 | $8.39 \cdot 10^{-7}$ |
| E_1 | $1.04 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0.275 |

| Color Code | |
|--------------------------------|--------|
| λ_{80}/λ_5 | 41/37* |
| (*= λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6.0 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7.2 |
| $T_g [^\circ C]$ | 638 |
| $T_{10}^{13.0} [^\circ C]$ | 639 |
| $T_{10}^{7.6} [^\circ C]$ | 733 |
| $c_p [J/(g \cdot K)]$ | 0.540 |
| $\lambda [W/(m \cdot K)]$ | 0.910 |
| $\rho [g/cm^3]$ | 4.45 |
| $E [10^3 N/mm^2]$ | 124 |
| μ | 0.298 |
| $K [10^{-6} mm^2/N]$ | 1.64 |
| $HK_{0.1/20}$ | 666 |
| HG | 1 |
| Abrasion Aa | 88 |
| CR | 1 |
| FR | 0 |
| SR | 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 | 4.4 | 6.4 | 8.8 | 1.9 | 3.8 | 6.1 |
| +20/ +40 | 4.7 | 7.0 | 9.8 | 3.1 | 5.3 | 8.1 |
| +60/ +80 | 5.0 | 7.4 | 10.5 | 3.7 | 6.1 | 9.2 |