

N-SF4 755274.315

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.75513$ | $v_d = 27.38$ | $n_F - n_C = 0.027583$ |
| $n_e = 1.76164$ | $v_e = 27.16$ | $n_{F'} - n_{C'} = 0.028044$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.70434 |
| $n_{1970.1}$ | 1970.1 | 1.71052 |
| $n_{1529.6}$ | 1529.6 | 1.71773 |
| $n_{1060.0}$ | 1060.0 | 1.72717 |
| n_t | 1014.0 | 1.72846 |
| n_s | 852.1 | 1.73432 |
| n_r | 706.5 | 1.74286 |
| n_C | 656.3 | 1.74719 |
| $n_{C'}$ | 643.8 | 1.74842 |
| $n_{632.8}$ | 632.8 | 1.74959 |
| n_D | 589.3 | 1.75489 |
| n_d | 587.6 | 1.75513 |
| n_e | 546.1 | 1.76164 |
| n_F | 486.1 | 1.77477 |
| $n_{F'}$ | 480.0 | 1.77647 |
| n_g | 435.8 | 1.79158 |
| n_h | 404.7 | 1.80668 |
| 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 | 0.776 | 0.530 |
| 2325 | 0.816 | 0.602 |
| 1970 | 0.943 | 0.863 |
| 1530 | 0.992 | 0.980 |
| 1060 | 0.999 | 0.999 |
| 700 | 0.994 | 0.984 |
| 660 | 0.991 | 0.978 |
| 620 | 0.992 | 0.979 |
| 580 | 0.993 | 0.982 |
| 546 | 0.991 | 0.977 |
| 500 | 0.979 | 0.948 |
| 460 | 0.961 | 0.906 |
| 436 | 0.942 | 0.861 |
| 420 | 0.916 | 0.802 |
| 405 | 0.861 | 0.687 |
| 400 | 0.830 | 0.628 |
| 390 | 0.740 | 0.471 |
| 380 | 0.563 | 0.238 |
| 370 | 0.249 | 0.031 |
| 365 | 0.100 | 0.003 |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2123 |
| $P_{C,s}$ | 0.4666 |
| $P_{d,C}$ | 0.2880 |
| $P_{e,d}$ | 0.2358 |
| $P_{g,F}$ | 0.6096 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2088 |
| $P'_{C',s}$ | 0.5030 |
| $P'_{d,C'}$ | 0.2392 |
| $P'_{e,d}$ | 0.2319 |
| $P'_{g,F'}$ | 0.5390 |
| $P'_{i,h}$ | |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0040 |
| $\Delta P_{C,s}$ | -0.0002 |
| $\Delta P_{F,e}$ | 0.0022 |
| $\Delta P_{g,F}$ | 0.0118 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 1.67780282 |
| B_2 | 0.282849893 |
| B_3 | 1.63539276 |
| C_1 | 0.012679345 |
| C_2 | 0.0602038419 |
| C_3 | 145.760496 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $-4.88 \cdot 10^{-6}$ |
| D_1 | $6.57 \cdot 10^{-9}$ |
| D_2 | $-2.72 \cdot 10^{-11}$ |
| E_0 | $9.67 \cdot 10^{-7}$ |
| E_1 | $1.48 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0.282 |

| Color Code | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 43/36 |
| (*= λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 9.5 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 10.9 |
| $T_g [^\circ C]$ | 570 |
| $T_{10}^{13.0} [^\circ C]$ | 559 |
| $T_{10}^{7.6} [^\circ C]$ | 661 |
| $c_p [J/(g \cdot K)]$ | 0.760 |
| $\lambda [W/(m \cdot K)]$ | 0.950 |
| $\rho [g/cm^3]$ | 3.15 |
| $E [10^3 N/mm^2]$ | 90 |
| μ | 0.256 |
| $K [10^{-6} mm^2/N]$ | 2.76 |
| $HK_{0.1/20}$ | 520 |
| HG | 6 |
| CR | 1 |
| FR | 0 |
| SR | 1.3 |
| 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 | -0.5 | 1.2 | 3.5 | -2.9 | -1.2 | 1.0 |
| +20/ +40 | -0.7 | 1.4 | 4.2 | -2.2 | -0.1 | 2.6 |
| +60/ +80 | -0.8 | 1.6 | 4.7 | -1.9 | 0.4 | 3.5 |