

N-SF6 805254.337

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.80518$ | $v_d = 25.36$ | $n_F - n_C = 0.031750$ |
| $n_e = 1.81266$ | $v_e = 25.16$ | $n_{F'} - n_{C'} = 0.032304$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.74895 |
| $n_{1970.1}$ | 1970.1 | 1.75541 |
| $n_{1529.6}$ | 1529.6 | 1.76307 |
| $n_{1060.0}$ | 1060.0 | 1.77341 |
| n_t | 1014.0 | 1.77486 |
| n_s | 852.1 | 1.78144 |
| n_r | 706.5 | 1.79114 |
| n_C | 656.3 | 1.79608 |
| $n_{C'}$ | 643.8 | 1.79749 |
| $n_{632.8}$ | 632.8 | 1.79883 |
| n_D | 589.3 | 1.80491 |
| n_d | 587.6 | 1.80518 |
| n_e | 546.1 | 1.81266 |
| n_F | 486.1 | 1.82783 |
| $n_{F'}$ | 480.0 | 1.82980 |
| n_g | 435.8 | 1.84738 |
| n_h | 404.7 | 1.86506 |
| 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 | 0.810 | 0.590 |
| 1970 | 0.941 | 0.860 |
| 1530 | 0.991 | 0.978 |
| 1060 | 0.998 | 0.996 |
| 700 | 0.993 | 0.983 |
| 660 | 0.990 | 0.976 |
| 620 | 0.991 | 0.978 |
| 580 | 0.992 | 0.980 |
| 546 | 0.989 | 0.972 |
| 500 | 0.977 | 0.943 |
| 460 | 0.961 | 0.905 |
| 436 | 0.946 | 0.870 |
| 420 | 0.919 | 0.810 |
| 405 | 0.857 | 0.680 |
| 400 | 0.821 | 0.610 |
| 390 | 0.700 | 0.410 |
| 380 | 0.480 | 0.160 |
| 370 | 0.158 | 0.010 |
| 365 | 0.004 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2074 |
| $P_{C,s}$ | 0.4610 |
| $P_{d,C}$ | 0.2867 |
| $P_{e,d}$ | 0.2356 |
| $P_{g,F}$ | 0.6158 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2039 |
| $P'_{C',s}$ | 0.4969 |
| $P'_{d,C'}$ | 0.2380 |
| $P'_{e,d}$ | 0.2315 |
| $P'_{g,F'}$ | 0.5443 |
| $P'_{i,h}$ | |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0031 |
| $\Delta P_{C,s}$ | -0.0010 |
| $\Delta P_{F,e}$ | 0.0027 |
| $\Delta P_{g,F}$ | 0.0146 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 1.77931763 |
| B_2 | 0.338149866 |
| B_3 | 2.08734474 |
| C_1 | 0.0133714182 |
| C_2 | 0.0617533621 |
| C_3 | 174.01759 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $-4.93 \cdot 10^{-6}$ |
| D_1 | $7.02 \cdot 10^{-9}$ |
| D_2 | $-2.40 \cdot 10^{-11}$ |
| E_0 | $9.84 \cdot 10^{-7}$ |
| E_1 | $1.54 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0.29 |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 45/37 |
| (* = λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 9.0 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 10.3 |
| $T_g [^\circ C]$ | 589 |
| $T_{10}^{13.0} [^\circ C]$ | 590 |
| $T_{10}^{7.6} [^\circ C]$ | 683 |
| $c_p [J/(g \cdot K)]$ | 0.690 |
| $\lambda [W/(m \cdot K)]$ | 0.960 |
| $\rho [g/cm^3]$ | 3.37 |
| $E [10^3 N/mm^2]$ | 93 |
| μ | 0.262 |
| $K [10^{-6} mm^2/N]$ | 2.82 |
| $HK_{0.1/20}$ | 550 |
| HG | 4 |
| CR | 1 |
| FR | 0 |
| SR | 2 |
| 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 | -0.7 | 1.2 | 3.9 | -3.0 | -1.2 | 1.3 |
| +20/ +40 | -0.8 | 1.5 | 4.8 | -2.3 | 0.0 | 3.1 |
| +60/ +80 | -0.8 | 1.8 | 5.4 | -2.0 | 0.6 | 4.1 |