

N-SF10 728285.305

| | | |
|-----------------|---------------|--------------------------|
| $n_d = 1.72828$ | $v_d = 28.53$ | $n_F - n_C = 0.025524$ |
| $n_e = 1.73430$ | $v_e = 28.31$ | $n_F' - n_C' = 0.025941$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.67981 |
| $n_{1970.1}$ | 1970.1 | 1.68597 |
| $n_{1529.6}$ | 1529.6 | 1.69308 |
| $n_{1060.0}$ | 1060.0 | 1.70217 |
| n_t | 1014.0 | 1.70340 |
| n_s | 852.1 | 1.70891 |
| n_f | 706.5 | 1.71688 |
| n_C | 656.3 | 1.72091 |
| $n_{C'}$ | 643.8 | 1.72206 |
| $n_{632.8}$ | 632.8 | 1.72314 |
| n_D | 589.3 | 1.72806 |
| n_d | 587.6 | 1.72828 |
| n_e | 546.1 | 1.73430 |
| n_F | 486.1 | 1.74643 |
| $n_{F'}$ | 480.0 | 1.74800 |
| n_g | 435.8 | 1.76191 |
| n_h | 404.7 | 1.77578 |
| 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 | |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.62153902 |
| B_2 | 0.256287842 |
| B_3 | 1.644475520 |
| C_1 | 0.01222414570 |
| C_2 | 0.0595736775 |
| C_3 | 147.4687930 |

| Constants of Formula for dn/dT | |
|----------------------------------|-----------|
| D_0 | -4.68E-06 |
| D_1 | 7.41E-09 |
| D_2 | -1.89E-11 |
| E_0 | 9.49E-07 |
| E_1 | 1.42E-09 |
| λ_{TK} [μm] | 0.279 |

| Temperature Coefficients of the Refractive Index | | | | | | |
|--|---|-----|-----|---|------|-----|
| [°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 | -0.4 | 1.3 | 3.4 | -2.7 | -1.1 | 1.0 |
| +20/+40 | -0.5 | 1.5 | 4.1 | -2.0 | -0.1 | 2.5 |
| +60/+80 | -0.5 | 1.7 | 4.6 | -1.7 | 0.5 | 3.4 |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i [10mm] | τ_i [25mm] |
| 2500 | 0.850 | 0.660 |
| 2325 | 0.900 | 0.760 |
| 1970 | 0.971 | 0.930 |
| 1530 | 0.994 | 0.985 |
| 1060 | 0.996 | 0.990 |
| 700 | 0.993 | 0.983 |
| 660 | 0.990 | 0.976 |
| 620 | 0.991 | 0.977 |
| 580 | 0.991 | 0.978 |
| 546 | 0.989 | 0.973 |
| 500 | 0.978 | 0.950 |
| 460 | 0.963 | 0.910 |
| 436 | 0.950 | 0.870 |
| 420 | 0.920 | 0.820 |
| 405 | 0.870 | 0.700 |
| 400 | 0.840 | 0.640 |
| 390 | 0.730 | 0.450 |
| 380 | 0.530 | 0.200 |
| 370 | 0.180 | |
| 365 | 0.060 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Color Code | |
|----------------------------|-------|
| λ_{80} / λ_5 | 42/36 |

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

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2160 |
| $P_{C,s}$ | 0.4701 |
| $P_{d,C}$ | 0.2888 |
| $P_{e,d}$ | 0.2359 |
| $P_{g,F}$ | 0.6066 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2125 |
| $P'_{C,s}$ | 0.5068 |
| $P'_{d,C'}$ | 0.2398 |
| $P'_{e,d}$ | 0.2321 |
| $P'_{g,F'}$ | 0.5365 |
| $P'_{i,h}$ | |

| Deviation of Relative Partial Dispersion ΔP from the normal line | |
|---|--------|
| $\Delta P_{C,t}$ | 0.0057 |
| $\Delta P_{C,s}$ | 0.0007 |
| $\Delta P_{F,e}$ | 0.0019 |
| $\Delta P_{g,F}$ | 0.0108 |
| $\Delta P_{i,g}$ | |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$] | 9.4 |
| $\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$] | 10.8 |
| T_g [°C] | 559 |
| T_{10}^{13} [°C] | 549 |
| $T_{10}^{7.6}$ [°C] | 652 |
| c_p [J/(g·K)] | 0.740 |
| λ [W/(m·K)] | 0.960 |
| ρ [g/cm ³] | 3.05 |
| E [10^3 N/mm ²] | 87 |
| μ | 0.252 |
| K [10^{-6} mm ² /N] | 2.92 |
| $HK_{0.1/20}$ | 540 |
| HG | 5 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |