

P-SF69 723292.293

| | | |
|-----------------|---------------|--------------------------|
| $n_d = 1.72250$ | $v_d = 29.23$ | $n_F - n_C = 0.024718$ |
| $n_e = 1.72833$ | $v_e = 29.00$ | $n_F' - n_C' = 0.025116$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.67440 |
| $n_{1970.1}$ | 1970.1 | 1.68073 |
| $n_{1529.6}$ | 1529.6 | 1.68797 |
| $n_{1060.0}$ | 1060.0 | 1.69705 |
| n_t | 1014.0 | 1.69826 |
| n_s | 852.1 | 1.70367 |
| n_f | 706.5 | 1.71144 |
| n_C | 656.3 | 1.71535 |
| $n_{C'}$ | 643.8 | 1.71647 |
| $n_{632.8}$ | 632.8 | 1.71752 |
| n_D | 589.3 | 1.72229 |
| n_d | 587.6 | 1.72250 |
| n_e | 546.1 | 1.72833 |
| n_F | 486.1 | 1.74007 |
| $n_{F'}$ | 480.0 | 1.74158 |
| n_g | 435.8 | 1.75502 |
| n_h | 404.7 | 1.76840 |
| 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 | 1.62594647 |
| B_2 | 0.235927609 |
| B_3 | 1.674346230 |
| C_1 | 0.01216966770 |
| C_2 | 0.0600710405 |
| C_3 | 145.6519080 |

| Constants of Formula for dn/dT | |
|----------------------------------|-----------|
| D_0 | -2.55E-06 |
| D_1 | 5.68E-09 |
| D_2 | -2.85E-11 |
| E_0 | 9.50E-07 |
| E_1 | 1.54E-09 |
| λ_{TK} [μm] | 0.275 |

| Temperature Coefficients of the Refractive Index | | | | | | |
|--|--|-----|-----|--|-----|-----|
| [$^{\circ}\text{C}$] | $\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$] | | | $\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$] | | |
| | 1060.0 | e | g | 1060.0 | e | g |
| -40/-20 | 0.9 | 2.5 | 4.6 | -1.4 | 0.1 | 2.1 |
| +20/+40 | 0.6 | 2.6 | 5.2 | -0.8 | 1.1 | 3.6 |
| +60/+80 | 0.5 | 2.8 | 5.6 | -0.6 | 1.6 | 4.4 |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i [10mm] | τ_i [25mm] |
| 2500 | 0.800 | 0.580 |
| 2325 | 0.860 | 0.680 |
| 1970 | 0.954 | 0.890 |
| 1530 | 0.993 | 0.983 |
| 1060 | 0.999 | 0.998 |
| 700 | 0.998 | 0.994 |
| 660 | 0.997 | 0.993 |
| 620 | 0.997 | 0.993 |
| 580 | 0.998 | 0.994 |
| 546 | 0.997 | 0.992 |
| 500 | 0.993 | 0.983 |
| 460 | 0.985 | 0.964 |
| 436 | 0.976 | 0.940 |
| 420 | 0.963 | 0.910 |
| 405 | 0.930 | 0.840 |
| 400 | 0.920 | 0.800 |
| 390 | 0.850 | 0.660 |
| 380 | 0.690 | 0.390 |
| 370 | 0.360 | 0.080 |
| 365 | 0.160 | 0.010 |
| 350 | 0.000 | 0.000 |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Color Code | |
|----------------------------|-------|
| λ_{80} / λ_5 | 41/36 |

| Remarks |
|--------------------------------|
| suitable for precision molding |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2188 |
| $P_{C,s}$ | 0.4727 |
| $P_{d,C}$ | 0.2893 |
| $P_{e,d}$ | 0.2360 |
| $P_{g,F}$ | 0.6050 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2153 |
| $P'_{C,s}$ | 0.5096 |
| $P'_{d,C'}$ | 0.2403 |
| $P'_{e,d}$ | 0.2322 |
| $P'_{g,F'}$ | 0.5352 |
| $P'_{i,h}$ | |

| Deviation of Relative Partial Dispersion ΔP from the normal line | |
|---|--------|
| $\Delta P_{C,t}$ | 0.0078 |
| $\Delta P_{C,s}$ | 0.0016 |
| $\Delta P_{F,e}$ | 0.0017 |
| $\Delta P_{g,F}$ | 0.0104 |
| $\Delta P_{i,g}$ | |

| Other Properties | |
|--|-------|
| $\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/\text{K}$] | 9.0 |
| $\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/\text{K}$] | 11.1 |
| T_g [$^{\circ}\text{C}$] | 508 |
| T_{10}^{13} [$^{\circ}\text{C}$] | 508 |
| $T_{10}^{7.6}$ [$^{\circ}\text{C}$] | 602 |
| c_p [$\text{J}/(\text{g}\cdot\text{K})$] | 0.820 |
| λ [$\text{W}/(\text{m}\cdot\text{K})$] | 1.120 |
| AT [$^{\circ}\text{C}$] | 547 |
| ρ [g/cm^3] | 2.93 |
| E [$10^3 \text{ N}/\text{mm}^2$] | 96 |
| μ | 0.251 |
| K [$10^{-6} \text{ mm}^2/\text{N}$] | 2.66 |
| $HK_{0.1/20}$ | 612 |
| Abrasion Aa | 142 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |
| WR-J | 1 |