

P-SK60 610579.308

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.61035$ | $v_d = 57.90$ | $n_F - n_C = 0.010541$ |
| $n_e = 1.61286$ | $v_e = 57.66$ | $n_{F'} - n_{C'} = 0.010628$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.57831 |
| $n_{1970.1}$ | 1970.1 | 1.58450 |
| $n_{1529.6}$ | 1529.6 | 1.59102 |
| $n_{1060.0}$ | 1060.0 | 1.59762 |
| n_t | 1014.0 | 1.59836 |
| n_s | 852.1 | 1.60140 |
| n_r | 706.5 | 1.60530 |
| n_C | 656.3 | 1.60714 |
| $n_{C'}$ | 643.8 | 1.60765 |
| $n_{632.8}$ | 632.8 | 1.60813 |
| n_D | 589.3 | 1.61026 |
| n_d | 587.6 | 1.61035 |
| n_e | 546.1 | 1.61286 |
| n_F | 486.1 | 1.61768 |
| $n_{F'}$ | 480.0 | 1.61828 |
| n_g | 435.8 | 1.62340 |
| n_h | 404.7 | 1.62815 |
| n_i | 365.0 | 1.63627 |
| $n_{334.1}$ | 334.1 | 1.64506 |
| $n_{312.6}$ | 312.6 | 1.65317 |
| $n_{296.7}$ | 296.7 | 1.66061 |
| $n_{280.4}$ | 280.4 | |
| $n_{248.3}$ | 248.3 | |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0.693 | 0.400 |
| 2325 | 0.831 | 0.630 |
| 1970 | 0.959 | 0.900 |
| 1530 | 0.993 | 0.983 |
| 1060 | 0.999 | 0.998 |
| 700 | 0.999 | 0.997 |
| 660 | 0.998 | 0.996 |
| 620 | 0.998 | 0.996 |
| 580 | 0.999 | 0.998 |
| 546 | 0.999 | 0.998 |
| 500 | 0.999 | 0.997 |
| 460 | 0.998 | 0.995 |
| 436 | 0.998 | 0.994 |
| 420 | 0.998 | 0.994 |
| 405 | 0.997 | 0.993 |
| 400 | 0.997 | 0.992 |
| 390 | 0.995 | 0.988 |
| 380 | 0.993 | 0.983 |
| 370 | 0.990 | 0.974 |
| 365 | 0.987 | 0.967 |
| 350 | 0.967 | 0.920 |
| 334 | 0.905 | 0.780 |
| 320 | 0.746 | 0.480 |
| 310 | 0.480 | 0.160 |
| 300 | 0.150 | 0.005 |
| 290 | 0.010 | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2887 |
| $P_{C,s}$ | 0.5438 |
| $P_{d,C}$ | 0.3049 |
| $P_{e,d}$ | 0.2384 |
| $P_{g,F}$ | 0.5427 |
| $P_{i,h}$ | 0.7702 |
| | |
| $P'_{s,t}$ | 0.2863 |
| $P'_{C',s}$ | 0.5876 |
| $P'_{d,C'}$ | 0.2542 |
| $P'_{e,d}$ | 0.2365 |
| $P'_{g,F'}$ | 0.4819 |
| $P'_{i,h}$ | 0.7639 |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0128 |
| $\Delta P_{C,s}$ | 0.0059 |
| $\Delta P_{F,e}$ | -0.0012 |
| $\Delta P_{g,F}$ | -0.0037 |
| $\Delta P_{i,g}$ | -0.0177 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.40790442 |
| B_2 | 0.143381417 |
| B_3 | 1.16513947 |
| C_1 | 0.00784382378 |
| C_2 | 0.0287769365 |
| C_3 | 105.373397 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $2.41 \cdot 10^{-6}$ |
| D_1 | $9.52 \cdot 10^{-9}$ |
| D_2 | $-8.08 \cdot 10^{-12}$ |
| E_0 | $4.72 \cdot 10^{-7}$ |
| E_1 | $6.22 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0.193 |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 33/29 |
| (* = λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7.1 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8.9 |
| $T_g [^\circ C]$ | 507 |
| $T_{10}^{13.0} [^\circ C]$ | 509 |
| $T_{10}^{7.6} [^\circ C]$ | 606 |
| $c_p [J/(g \cdot K)]$ | 0.760 |
| $\lambda [W/(m \cdot K)]$ | 1.130 |
| $AT [^\circ C]$ | 547 |
| $\rho [g/cm^3]$ | 3.08 |
| $E [10^3 N/mm^2]$ | 99 |
| μ | 0.253 |
| $K [10^{-6} mm^2/N]$ | 2.04 |
| $HK_{0.1/20}$ | 601 |
| HG | |
| $Abrasion Aa$ | 86 |
| | |
| CR | 3 |
| FR | 5 |
| SR | 53.4 |
| AR | 2.3 |
| PR | 3.3 |
| $SR-J$ | 4 |
| $WR-J$ | 3 |

| 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 | 3.0 | 3.7 | 4.3 | 0.9 | 1.5 | 2.1 |
| +20/ +40 | 2.9 | 3.6 | 4.3 | 1.5 | 2.3 | 2.9 |
| +60/ +80 | 2.9 | 3.8 | 4.5 | 1.8 | 2.7 | 3.4 |