

N-PK51 529770.386

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.52855$ | $v_d = 76.98$ | $n_F - n_C = 0.006867$ |
| $n_e = 1.53019$ | $v_e = 76.58$ | $n_{F'} - n_{C'} = 0.006923$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.50987 |
| $n_{1970.1}$ | 1970.1 | 1.51312 |
| $n_{1529.6}$ | 1529.6 | 1.51665 |
| $n_{1060.0}$ | 1060.0 | 1.52045 |
| n_t | 1014.0 | 1.52089 |
| n_s | 852.1 | 1.52278 |
| n_r | 706.5 | 1.52527 |
| n_C | 656.3 | 1.52646 |
| $n_{C'}$ | 643.8 | 1.52680 |
| $n_{632.8}$ | 632.8 | 1.52711 |
| n_D | 589.3 | 1.52849 |
| n_d | 587.6 | 1.52855 |
| n_e | 546.1 | 1.53019 |
| n_F | 486.1 | 1.53333 |
| $n_{F'}$ | 480.0 | 1.53372 |
| n_g | 435.8 | 1.53704 |
| n_h | 404.7 | 1.54010 |
| n_i | 365.0 | 1.54527 |
| $n_{334.1}$ | 334.1 | 1.55079 |
| $n_{312.6}$ | 312.6 | 1.55579 |
| $n_{296.7}$ | 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 | 0.919 | 0.810 |
| 2325 | 0.941 | 0.860 |
| 1970 | 0.976 | 0.940 |
| 1530 | 0.994 | 0.985 |
| 1060 | 0.998 | 0.994 |
| 700 | 0.997 | 0.992 |
| 660 | 0.996 | 0.991 |
| 620 | 0.997 | 0.992 |
| 580 | 0.998 | 0.995 |
| 546 | 0.998 | 0.996 |
| 500 | 0.997 | 0.993 |
| 460 | 0.995 | 0.988 |
| 436 | 0.994 | 0.984 |
| 420 | 0.994 | 0.984 |
| 405 | 0.994 | 0.986 |
| 400 | 0.994 | 0.986 |
| 390 | 0.994 | 0.984 |
| 380 | 0.989 | 0.973 |
| 370 | 0.982 | 0.955 |
| 365 | 0.976 | 0.940 |
| 350 | 0.933 | 0.840 |
| 334 | 0.815 | 0.600 |
| 320 | 0.601 | 0.280 |
| 310 | 0.398 | 0.100 |
| 300 | 0.209 | 0.020 |
| 290 | 0.063 | |
| 280 | 0.010 | |
| 270 | 0.001 | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2750 |
| $P_{C,s}$ | 0.5360 |
| $P_{d,C}$ | 0.3046 |
| $P_{e,d}$ | 0.2387 |
| $P_{g,F}$ | 0.5401 |
| $P_{i,h}$ | 0.7535 |
| | |
| $P'_{s,t}$ | 0.2727 |
| $P'_{C',s}$ | 0.5797 |
| $P'_{d,C'}$ | 0.2540 |
| $P'_{e,d}$ | 0.2367 |
| $P'_{g,F'}$ | 0.4794 |
| $P'_{i,h}$ | 0.7473 |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | -0.0991 |
| $\Delta P_{C,s}$ | -0.0463 |
| $\Delta P_{F,e}$ | 0.0088 |
| $\Delta P_{g,F}$ | 0.0258 |
| $\Delta P_{i,g}$ | 0.1203 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.15610775 |
| B_2 | 0.153229344 |
| B_3 | 0.785618966 |
| C_1 | 0.00585597402 |
| C_2 | 0.0194072416 |
| C_3 | 140.537046 |

| Constants of Dispersion dn/dT | |
|---------------------------------|-----------------------|
| D_0 | $-1.98 \cdot 10^{-5}$ |
| D_1 | $-6.06 \cdot 10^{-9}$ |
| D_2 | $1.60 \cdot 10^{-11}$ |
| E_0 | $4.16 \cdot 10^{-7}$ |
| E_1 | $5.01 \cdot 10^{-10}$ |
| λ_{TK} [μm] | 0.134 |

| Color Code | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 34/29 |
| (*= λ_{70}/λ_5) | |

| Remarks |
|--|
| suitable for precision molding, step 0.5 available |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$] | 12.4 |
| $\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$] | 14.1 |
| T_g [$^\circ C$] | 487 |
| $T_{10}^{13.0}$ [$^\circ C$] | 488 |
| $T_{10}^{7.6}$ [$^\circ C$] | 568 |
| c_p [J/(g·K)] | 0.620 |
| λ [W/(m·K)] | 0.650 |
| AT [$^\circ C$] | 528 |
| ρ [g/cm ³] | 3.86 |
| E [10^3 N/mm ²] | 74 |
| μ | 0.295 |
| K [10^{-6} mm ² /N] | 0.54 |
| HK _{0.1/20} | 415 |
| HG | 6 |
| Abrasion Aa | 592 |
| | |
| CR | 1 |
| FR | 0 |
| SR | 52.3 |
| AR | 3.3 |
| PR | 4.3 |
| SR-J | 3 |
| WR-J | 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 | -6.0 | -5.7 | -5.4 | -8.1 | -7.8 | -7.5 |
| +20/ +40 | -7.1 | -6.7 | -6.4 | -8.4 | -8.1 | -7.7 |
| +60/ +80 | -7.5 | -7.1 | -6.7 | -8.6 | -8.2 | -7.8 |