

N-KZFS2 558540.255

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.55836$ | $v_d = 54.01$ | $n_F - n_C = 0.010338$ |
| $n_e = 1.56082$ | $v_e = 53.83$ | $n_{F'} - n_{C'} = 0.010418$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.52239 |
| $n_{1970.1}$ | 1970.1 | 1.53011 |
| $n_{1529.6}$ | 1529.6 | 1.53798 |
| $n_{1060.0}$ | 1060.0 | 1.54546 |
| n_t | 1014.0 | 1.54625 |
| n_s | 852.1 | 1.54944 |
| n_r | 706.5 | 1.55337 |
| n_C | 656.3 | 1.55519 |
| $n_{C'}$ | 643.8 | 1.55570 |
| $n_{632.8}$ | 632.8 | 1.55617 |
| n_D | 589.3 | 1.55827 |
| n_d | 587.6 | 1.55836 |
| n_e | 546.1 | 1.56082 |
| n_F | 486.1 | 1.56553 |
| $n_{F'}$ | 480.0 | 1.56612 |
| n_g | 435.8 | 1.57114 |
| n_h | 404.7 | 1.57580 |
| n_i | 365.0 | 1.58382 |
| $n_{334.1}$ | 334.1 | 1.59259 |
| $n_{312.6}$ | 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 | 0.276 | 0.040 |
| 2325 | 0.583 | 0.260 |
| 1970 | 0.915 | 0.800 |
| 1530 | 0.976 | 0.940 |
| 1060 | 0.996 | 0.991 |
| 700 | 0.998 | 0.996 |
| 660 | 0.998 | 0.994 |
| 620 | 0.998 | 0.994 |
| 580 | 0.998 | 0.994 |
| 546 | 0.998 | 0.994 |
| 500 | 0.997 | 0.992 |
| 460 | 0.995 | 0.987 |
| 436 | 0.992 | 0.981 |
| 420 | 0.990 | 0.975 |
| 405 | 0.987 | 0.967 |
| 400 | 0.985 | 0.963 |
| 390 | 0.980 | 0.950 |
| 380 | 0.971 | 0.930 |
| 370 | 0.963 | 0.910 |
| 365 | 0.954 | 0.890 |
| 350 | 0.915 | 0.800 |
| 334 | 0.810 | 0.590 |
| 320 | 0.565 | 0.240 |
| 310 | 0.246 | 0.030 |
| 300 | 0.012 | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.3080 |
| $P_{C,s}$ | 0.5568 |
| $P_{d,C}$ | 0.3061 |
| $P_{e,d}$ | 0.2383 |
| $P_{g,F}$ | 0.5419 |
| $P_{i,h}$ | 0.7758 |
| | |
| $P'_{s,t}$ | 0.3056 |
| $P'_{C',s}$ | 0.6011 |
| $P'_{d,C'}$ | 0.2552 |
| $P'_{e,d}$ | 0.2365 |
| $P'_{g,F'}$ | 0.4814 |
| $P'_{i,h}$ | 0.7699 |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0636 |
| $\Delta P_{C,s}$ | 0.0280 |
| $\Delta P_{F,e}$ | -0.0044 |
| $\Delta P_{g,F}$ | -0.0111 |
| $\Delta P_{i,g}$ | -0.0440 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.23697554 |
| B_2 | 0.153569376 |
| B_3 | 0.903976272 |
| C_1 | 0.00747170505 |
| C_2 | 0.0308053556 |
| C_3 | 70.1731084 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $6.77 \cdot 10^{-6}$ |
| D_1 | $1.31 \cdot 10^{-8}$ |
| D_2 | $-1.23 \cdot 10^{-11}$ |
| E_0 | $3.84 \cdot 10^{-7}$ |
| E_1 | $5.51 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0.196 |

| Color Code | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 34/30 |
| (*= λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 4.4 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 5.4 |
| $T_g [^\circ C]$ | 472 |
| $T_{10}^{13.0} [^\circ C]$ | 488 |
| $T_{10}^{7.6} [^\circ C]$ | 600 |
| $c_p [J/(g \cdot K)]$ | 0.830 |
| $\lambda [W/(m \cdot K)]$ | 0.810 |
| $AT [^\circ C]$ | 533 |
| $\rho [g/cm^3]$ | 2.54 |
| $E [10^3 N/mm^2]$ | 66 |
| μ | 0.266 |
| $K [10^{-6} mm^2/N]$ | 4.02 |
| $HK_{0.1/20}$ | 490 |
| HG | 3 |
| $Abrasion Aa$ | 70 |
| | |
| CR | 1 |
| FR | 4 |
| SR | 52.3 |
| AR | 4.3 |
| PR | 4.2 |
| $SR-J$ | 6 |
| $WR-J$ | 6 |

| 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 | 4.6 | 5.2 | 5.7 | 2.5 | 3.0 | 3.5 |
| +20/ +40 | 4.7 | 5.3 | 5.9 | 3.3 | 3.9 | 4.5 |
| +60/ +80 | 4.8 | 5.5 | 6.2 | 3.8 | 4.5 | 5.1 |