

N-K5 522595.259

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.52249$ | $v_d = 59.48$ | $n_F - n_C = 0.008784$ |
| $n_e = 1.52458$ | $v_e = 59.22$ | $n_{F'} - n_{C'} = 0.008858$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.49656 |
| $n_{1970.1}$ | 1970.1 | 1.50146 |
| $n_{1529.6}$ | 1529.6 | 1.50664 |
| $n_{1060.0}$ | 1060.0 | 1.51197 |
| n_t | 1014.0 | 1.51257 |
| n_s | 852.1 | 1.51507 |
| n_r | 706.5 | 1.51829 |
| n_C | 656.3 | 1.51982 |
| $n_{C'}$ | 643.8 | 1.52024 |
| $n_{632.8}$ | 632.8 | 1.52064 |
| n_D | 589.3 | 1.52241 |
| n_d | 587.6 | 1.52249 |
| n_e | 546.1 | 1.52458 |
| n_F | 486.1 | 1.52860 |
| $n_{F'}$ | 480.0 | 1.52910 |
| n_g | 435.8 | 1.53338 |
| n_h | 404.7 | 1.53734 |
| n_i | 365.0 | 1.54412 |
| $n_{334.1}$ | 334.1 | 1.55145 |
| $n_{312.6}$ | 312.6 | 1.55821 |
| $n_{296.7}$ | 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 | 0.776 | 0.530 |
| 2325 | 0.847 | 0.660 |
| 1970 | 0.946 | 0.870 |
| 1530 | 0.994 | 0.986 |
| 1060 | 0.998 | 0.995 |
| 700 | 0.998 | 0.994 |
| 660 | 0.997 | 0.992 |
| 620 | 0.997 | 0.993 |
| 580 | 0.998 | 0.995 |
| 546 | 0.998 | 0.995 |
| 500 | 0.997 | 0.993 |
| 460 | 0.996 | 0.991 |
| 436 | 0.996 | 0.991 |
| 420 | 0.996 | 0.991 |
| 405 | 0.996 | 0.989 |
| 400 | 0.995 | 0.988 |
| 390 | 0.994 | 0.984 |
| 380 | 0.991 | 0.977 |
| 370 | 0.985 | 0.962 |
| 365 | 0.982 | 0.956 |
| 350 | 0.950 | 0.880 |
| 334 | 0.831 | 0.630 |
| 320 | 0.536 | 0.210 |
| 310 | 0.221 | 0.020 |
| 300 | 0.058 | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2843 |
| $P_{C,s}$ | 0.5404 |
| $P_{d,C}$ | 0.3044 |
| $P_{e,d}$ | 0.2384 |
| $P_{g,F}$ | 0.5438 |
| $P_{i,h}$ | 0.7717 |
| $P'_{s,t}$ | 0.2819 |
| $P'_{C',s}$ | 0.5839 |
| $P'_{d,C'}$ | 0.2538 |
| $P'_{e,d}$ | 0.2364 |
| $P'_{g,F'}$ | 0.4828 |
| $P'_{i,h}$ | 0.7653 |

| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | |
|---|---------|
| $\Delta P_{C,t}$ | -0.0025 |
| $\Delta P_{C,s}$ | -0.0012 |
| $\Delta P_{F,e}$ | 0.0001 |
| $\Delta P_{g,F}$ | 0.0000 |
| $\Delta P_{i,g}$ | -0.0019 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.08511833 |
| B_2 | 0.199562005 |
| B_3 | 0.930511663 |
| C_1 | 0.00661099503 |
| C_2 | 0.024110866 |
| C_3 | 111.982777 |

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

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

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $-4.13 \cdot 10^{-7}$ |
| D_1 | $1.03 \cdot 10^{-8}$ |
| D_2 | $-3.40 \cdot 10^{-11}$ |
| E_0 | $4.73 \cdot 10^{-7}$ |
| E_1 | $5.19 \cdot 10^{-10}$ |
| $\lambda_{TK}[\mu m]$ | 0.213 |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8.2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9.6 |
| $T_g [^\circ C]$ | 546 |
| $T_{10}^{13.0} [^\circ C]$ | 540 |
| $T_{10}^{7.6} [^\circ C]$ | 720 |
| $c_p [J/(g \cdot K)]$ | 0.783 |
| $\lambda [W/(m \cdot K)]$ | 0.950 |
| $\rho [g/cm^3]$ | 2.59 |
| $E [10^3 N/mm^2]$ | 71 |
| μ | 0.224 |
| $K [10^{-6} mm^2/N]$ | 3.03 |
| $HK_{0.1/20}$ | 530 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |

| Temperature Coefficients of 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 | 1.5 | 2.1 | 2.6 | -0.6 | 0.0 | 0.5 |
| +20/ +40 | 1.4 | 2.1 | 2.7 | 0.1 | 0.7 | 1.4 |
| +60/ +80 | 1.4 | 2.1 | 2.8 | 0.4 | 1.1 | 1.8 |