

F2G12 621366.360

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.62072$ | $v_d = 36.56$ | $n_F - n_C = 0.016979$ |
| $n_e = 1.62474$ | $v_e = 36.30$ | $n_{F'} - n_{C'} = 0.017212$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.58584 |
| $n_{1970.1}$ | 1970.1 | 1.59051 |
| $n_{1529.6}$ | 1529.6 | 1.59593 |
| $n_{1060.0}$ | 1060.0 | 1.60265 |
| n_t | 1014.0 | 1.60353 |
| n_s | 852.1 | 1.60744 |
| n_r | 706.5 | 1.61298 |
| n_C | 656.3 | 1.61573 |
| $n_{C'}$ | 643.8 | 1.61652 |
| $n_{632.8}$ | 632.8 | 1.61725 |
| n_D | 589.3 | 1.62057 |
| n_d | 587.6 | 1.62072 |
| n_e | 546.1 | 1.62474 |
| n_F | 486.1 | 1.63271 |
| $n_{F'}$ | 480.0 | 1.63373 |
| n_g | 435.8 | 1.64261 |
| n_h | 404.7 | 1.65121 |
| 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 | |

| Internal Transmittance τ_i | | |
|---------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0.891 | 0.750 |
| 2325 | 0.924 | 0.820 |
| 1970 | 0.971 | 0.930 |
| 1530 | 0.996 | 0.989 |
| 1060 | 0.999 | 0.997 |
| 700 | 0.995 | 0.988 |
| 660 | 0.994 | 0.984 |
| 620 | 0.992 | 0.979 |
| 580 | 0.989 | 0.972 |
| 546 | 0.985 | 0.963 |
| 500 | 0.974 | 0.937 |
| 460 | 0.937 | 0.850 |
| 436 | 0.842 | 0.650 |
| 420 | 0.693 | 0.400 |
| 405 | 0.428 | 0.120 |
| 400 | 0.325 | 0.060 |
| 390 | 0.124 | |
| 380 | 0.019 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2303 |
| $P_{C,s}$ | 0.4883 |
| $P_{d,C}$ | 0.2937 |
| $P_{e,d}$ | 0.2369 |
| $P_{g,F}$ | 0.5831 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2272 |
| $P'_{C',s}$ | 0.5271 |
| $P'_{d,C'}$ | 0.2443 |
| $P'_{e,d}$ | 0.2337 |
| $P'_{g,F'}$ | 0.5163 |
| $P'_{i,h}$ | |

| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | |
|---|--------|
| $\Delta P_{C,t}$ | 0.0002 |
| $\Delta P_{C,s}$ | 0.0002 |
| $\Delta P_{F,e}$ | 0.0002 |
| $\Delta P_{g,F}$ | 0.0008 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.34702224 |
| B_2 | 0.210037763 |
| B_3 | 19.5350768 |
| C_1 | 0.00980850553 |
| C_2 | 0.0471788018 |
| C_3 | 2279.1547 |

| Constants of Dispersion dn/dT | |
|---------------------------------|--|
| D_0 | |
| D_1 | |
| D_2 | |
| E_0 | |
| E_1 | |
| λ_{TK} [μm] | |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 45/39 |
| (* = λ_{70}/λ_5) | |

| Remarks | |
|---------------------------|--|
| radiation resistant glass | |

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$] | 8.1 |
| $\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$] | 9.0 |
| T_g [$^\circ C$] | 435 |
| $T_{10}^{13.0}$ [$^\circ C$] | 438 |
| $T_{10}^{7.6}$ [$^\circ C$] | 604 |
| c_p [J/(g·K)] | 0.530 |
| λ [W/(m·K)] | 0.820 |
| ρ [g/cm ³] | 3.60 |
| E [10^3 N/mm ²] | 58 |
| μ | 0.222 |
| K [10^{-6} mm ² /N] | 2.79 |
| $HK_{0.1/20}$ | 428 |
| HG | |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1.3 |
| PR | 2.3 |

| 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 | | | | | | |
| +20/ +40 | | | | | | |
| +60/ +80 | | | | | | |