

F2HT 620364.360

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.62004$ | $v_d = 36.37$ | $n_F - n_C = 0.017050$ |
| $n_e = 1.62408$ | $v_e = 36.11$ | $n_{F'} - n_{C'} = 0.017284$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.58465 |
| $n_{1970.1}$ | 1970.1 | 1.58958 |
| $n_{1529.6}$ | 1529.6 | 1.59513 |
| $n_{1060.0}$ | 1060.0 | 1.60190 |
| n_t | 1014.0 | 1.60279 |
| n_s | 852.1 | 1.60671 |
| n_r | 706.5 | 1.61227 |
| n_C | 656.3 | 1.61503 |
| $n_{C'}$ | 643.8 | 1.61582 |
| $n_{632.8}$ | 632.8 | 1.61656 |
| n_D | 589.3 | 1.61989 |
| n_d | 587.6 | 1.62004 |
| n_e | 546.1 | 1.62408 |
| n_F | 486.1 | 1.63208 |
| $n_{F'}$ | 480.0 | 1.63310 |
| n_g | 435.8 | 1.64202 |
| n_h | 404.7 | 1.65064 |
| n_i | 365.0 | 1.66623 |
| $n_{334.1}$ | 334.1 | 1.68455 |
| $n_{312.6}$ | 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 | 0.874 | 0.714 |
| 2325 | 0.912 | 0.795 |
| 1970 | 0.968 | 0.921 |
| 1530 | 0.998 | 0.994 |
| 1060 | 0.999 | 0.998 |
| 700 | 0.999 | 0.998 |
| 660 | 0.999 | 0.997 |
| 620 | 0.999 | 0.998 |
| 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 | 0.997 | 0.994 |
| 405 | 0.997 | 0.992 |
| 400 | 0.996 | 0.991 |
| 390 | 0.995 | 0.988 |
| 380 | 0.993 | 0.982 |
| 370 | 0.988 | 0.971 |
| 365 | 0.983 | 0.957 |
| 350 | 0.927 | 0.828 |
| 334 | 0.565 | 0.240 |
| 320 | 0.080 | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2301 |
| $P_{C,s}$ | 0.4882 |
| $P_{d,C}$ | 0.2938 |
| $P_{e,d}$ | 0.2370 |
| $P_{g,F}$ | 0.5828 |
| $P_{i,h}$ | 0.9142 |
| | |
| $P'_{s,t}$ | 0.2270 |
| $P'_{C',s}$ | 0.5270 |
| $P'_{d,C'}$ | 0.2443 |
| $P'_{e,d}$ | 0.2338 |
| $P'_{g,F'}$ | 0.5159 |
| $P'_{i,h}$ | 0.9018 |

| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | |
|-----------------------------------------------------------------------------|--------|
| $\Delta P_{C,t}$ | 0.0008 |
| $\Delta P_{C,s}$ | 0.0005 |
| $\Delta P_{F,e}$ | 0.0000 |
| $\Delta P_{g,F}$ | 0.0002 |
| $\Delta P_{i,g}$ | 0.0006 |

| Constants of Dispersion Formula | |
|---------------------------------|---------------|
| B_1 | 1.34533359 |
| B_2 | 0.209073176 |
| B_3 | 0.937357162 |
| C_1 | 0.00997743871 |
| C_2 | 0.0470450767 |
| C_3 | 111.886764 |

| Constants of Dispersion dn/dT | |
|---------------------------------|------------------------|
| D_0 | $1.51 \cdot 10^{-6}$ |
| D_1 | $1.56 \cdot 10^{-8}$ |
| D_2 | $-2.78 \cdot 10^{-11}$ |
| E_0 | $9.34 \cdot 10^{-7}$ |
| E_1 | $1.04 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0.25 |

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 35/32 |
| (* = λ_{70}/λ_5) | |

| Remarks | |
|----------------------------|--|
| lead containing glass type | |

| Other Properties | |
|-----------------------------------------|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8.2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9.2 |
| $T_g [^\circ C]$ | 434 |
| $T_{10}^{13.0} [^\circ C]$ | 430 |
| $T_{10}^{7.6} [^\circ C]$ | 594 |
| $c_p [J/(g \cdot K)]$ | 0.557 |
| $\lambda [W/(m \cdot K)]$ | 0.780 |
| | |
| $\rho [g/cm^3]$ | 3.60 |
| $E [10^3 N/mm^2]$ | 57 |
| μ | 0.220 |
| $K [10^{-6} mm^2/N]$ | 2.81 |
| $HK_{0.1/20}$ | 420 |
| HG | 2 |
| | |
| | |
| | |
| | |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 2.3 |
| PR | 1.3 |

| 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 | 2.4 | 3.9 | 5.5 | 0.3 | 1.6 | 3.2 |
| +20/ +40 | 2.7 | 4.4 | 6.3 | 1.3 | 3.0 | 4.8 |
| +60/ +80 | 3.0 | 4.8 | 6.8 | 1.9 | 3.7 | 5.7 |