

LAK9G15 691548.353

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1.69064$ | $v_d = 54.76$ | $n_F - n_C = 0.012612$ |
| $n_e = 1.69364$ | $v_e = 54.53$ | $n_{F'} - n_{C'} = 0.012721$ |

| Refractive Indices | | |
|--------------------|----------------|---------|
| | λ [nm] | |
| $n_{2325.4}$ | 2325.4 | 1.65362 |
| $n_{1970.1}$ | 1970.1 | 1.66043 |
| $n_{1529.6}$ | 1529.6 | 1.66783 |
| $n_{1060.0}$ | 1060.0 | 1.67552 |
| n_t | 1014.0 | 1.67639 |
| n_s | 852.1 | 1.67999 |
| n_r | 706.5 | 1.68462 |
| n_C | 656.3 | 1.68680 |
| $n_{C'}$ | 643.8 | 1.68741 |
| $n_{632.8}$ | 632.8 | 1.68798 |
| n_D | 589.3 | 1.69052 |
| n_d | 587.6 | 1.69064 |
| n_e | 546.1 | 1.69364 |
| n_F | 486.1 | 1.69941 |
| $n_{F'}$ | 480.0 | 1.70013 |
| n_g | 435.8 | 1.70630 |
| n_h | 404.7 | 1.71205 |
| 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 | 0.480 | 0.160 |
| 2325 | 0.752 | 0.490 |
| 1970 | 0.963 | 0.910 |
| 1530 | 0.995 | 0.987 |
| 1060 | 0.998 | 0.996 |
| 700 | 0.994 | 0.986 |
| 660 | 0.993 | 0.982 |
| 620 | 0.991 | 0.978 |
| 580 | 0.989 | 0.973 |
| 546 | 0.985 | 0.964 |
| 500 | 0.971 | 0.930 |
| 460 | 0.919 | 0.810 |
| 436 | 0.799 | 0.570 |
| 420 | 0.634 | 0.320 |
| 405 | 0.382 | 0.090 |
| 400 | 0.292 | 0.040 |
| 390 | 0.122 | 0.010 |
| 380 | 0.026 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{s,t}$ | 0.2852 |
| $P_{C,s}$ | 0.5400 |
| $P_{d,C}$ | 0.3040 |
| $P_{e,d}$ | 0.2383 |
| $P_{g,F}$ | 0.5462 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0.2828 |
| $P'_{C',s}$ | 0.5834 |
| $P'_{d,C'}$ | 0.2533 |
| $P'_{e,d}$ | 0.2362 |
| $P'_{g,F'}$ | 0.4849 |
| $P'_{i,h}$ | |

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

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0205 |
| $\Delta P_{C,s}$ | 0.0095 |
| $\Delta P_{F,e}$ | -0.0018 |
| $\Delta P_{g,F}$ | -0.0055 |
| $\Delta P_{i,g}$ | |

| Constants of Dispersion Formula | |
|---------------------------------|--------------|
| B_1 | 1.28773667 |
| B_2 | 0.518244853 |
| B_3 | 26.1756109 |
| C_1 | 0.0055754192 |
| C_2 | 0.0223679524 |
| C_3 | 1892.2533 |

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

| Color Code | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 46/38 |
| (* = λ_{70}/λ_5) | |

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

| Other Properties | |
|---|-------|
| $\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$] | 6.3 |
| $\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$] | 7.6 |
| T_g [$^\circ C$] | 634 |
| $T_{10}^{13.0}$ [$^\circ C$] | 635 |
| $T_{10}^{7.6}$ [$^\circ C$] | 710 |
| c_p [J/(g·K)] | 0.660 |
| λ [W/(m·K)] | 0.880 |
| ρ [g/cm ³] | 3.53 |
| E [10^3 N/mm ²] | 108 |
| μ | 0.288 |
| K [10^{-6} mm ² /N] | 1.86 |
| $HK_{0.1/20}$ | 721 |
| HG | |
| CR | 2 |
| FR | 2 |
| SR | 53 |
| AR | 1.3 |
| PR | 4.3 |

| 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 | | | | | | |