# 光明光电光学玻璃产品数据库

| H-ZF12 | 762266 | $n_d$ =1.76182 | $\upsilon_d$ =26.61 | $n_F - n_C$ =0.028631 |
|---|---|---|---|---|
| | | $n_e$ =1.76857 | $\upsilon_e$ =26.39 | $n_{F'} - n_{C'}$ =0.029118 |

| Refractive Indices | | |
|---|---|---|
| | λ (nm) | |
| $n_t$ | 1014.0 | 1.73421 |
| $n_s$ | 706.5 | 1.74911 |
| $n_C$ | 656.3 | 1.75359 |
| $n_{C'}$ | 643.8 | 1.75487 |
| $n_{He-Ne}$ | 632.8 | 1.75608 |
| $n_D$ | 589.3 | 1.76157 |
| $n_d$ | 587.6 | 1.76182 |
| $n_e$ | 546.1 | 1.76857 |
| $n_F$ | 486.1 | 1.78221 |
| $n_{F'}$ | 480.0 | 1.78399 |
| $n_g$ | 435.8 | 1.79974 |
| $n_h$ | 404.7 | 1.81558 |
| $n_i$ | 365.0 | |
| | | |

| Constants of Dispersion Formula | |
|---|---|
| $A_0$ | 2.9883362 |
| $A_1$ | $-1.5580830\times10^{-2}$ |
| $A_2$ | $3.2558574\times10^{-2}$ |
| $A_3$ | $4.0763444\times10^{-3}$ |
| $A_4$ | $-4.2358527\times10^{-4}$ |
| $A_5$ | $4.0442221\times10^{-5}$ |

| Deviation of Relative Partial Dispersions Δ P from the"Normal Line" | |
|---|---|
| $\Delta P_{F,e}$ | 0.0019 |
| $\Delta P_{g,F}$ | 0.0119 |
| | |

| Relative Partial Dispersions | | | |
|---|---|---|---|
| $P_{d,C}$ | 0.2873 | $P'_{d,C'}$ | 0.2386 |
| $P_{e,d}$ | 0.2357 | $P'_{e,d}$ | 0.2318 |
| $P_{g,F}$ | 0.6123 | $P'_{g,F'}$ | 0.5409 |

| Chemical Properties | |
|---|---|
| | Grade |
| RC(S) | 2 |
| RA(S) | 1 |
| $D_W$ | 1 |
| $D_A$ | 1 |

| Thermal Properties | |
|---|---|
| $T_g$ (℃) | 617 |
| $T_s$ (℃) | 661 |
| $T_{10^{14.5}}$ (℃) | 574 |
| $T_{10^{13}}$ (℃) | 608 |
| $T_{10^{7.6}}$(℃) | 719 |
| $\alpha_{20/120℃}$($10^{-7}$/K) | 89 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 101 |
| λ (W/m • K) | |

| Mechanical Properties | |
|---|---|
| $H_K$ ($10^7$Pa) | 538 |
| $F_A$ | |
| E ($10^7$Pa) | 9006 |
| G ($10^7$Pa) | 3611 |
| μ | 0.247 |
| B ($10^{-12}$/Pa) | |

| Other Properties | |
|---|---|
| ρ (g/cm³) | 3.17 |

| Temperature Coefficients of Refractive Index | | | | | | |
|---|---|---|---|---|---|---|
| Rang of Temperature | dn/dt relative($10^{-6}$/℃) | | | | | |
| | t | C′ | d | e | F′ | g |
| -40～-20 | -0.9 | -0.3 | 0.9 | 1.5 | 3.1 | 3.0 |
| -20～0 | 1.0 | 1.1 | 1.6 | 2.0 | 3.0 | 3.7 |
| 0～20 | 1.0 | 1.3 | 1.9 | 2.7 | 3.6 | 5.3 |
| 20～40 | -0.9 | 1.4 | 1.9 | 2.6 | 4.0 | 6.1 |
| 40～60 | 0.8 | 1.5 | 2.1 | 2.7 | 4.1 | 6.0 |
| 60～80 | 1.1 | 1.8 | 2.0 | 3.0 | 4.3 | 6.4 |

| Internal Transmittance | | |
|---|---|---|
| λ (nm) | τ 5 mm | τ 10 mm |
| 2400 | 0.951 | 0.904 |
| 2200 | 0.967 | 0.935 |
| 2000 | 0.985 | 0.970 |
| 1800 | 0.991 | 0.982 |
| 1600 | 0.999 | 0.998 |
| 1400 | 0.999 | 0.998 |
| 1200 | 0.999 | 0.998 |
| 1060 | 0.999 | 0.998 |
| 1000 | 0.999 | 0.998 |
| 950 | 0.999 | 0.998 |
| 900 | 0.999 | 0.998 |
| 850 | 0.998 | 0.997 |
| 800 | 0.998 | 0.997 |
| 700 | 0.997 | 0.995 |
| 650 | 0.996 | 0.993 |
| 600 | 0.996 | 0.993 |
| 550 | 0.995 | 0.991 |
| 500 | 0.992 | 0.984 |
| 480 | 0.990 | 0.980 |
| 460 | 0.986 | 0.973 |
| 440 | 0.981 | 0.962 |
| 420 | 0.964 | 0.930 |
| 400 | 0.907 | 0.823 |
| 390 | 0.82 | 0.68 |
| 380 | 0.62 | 0.39 |
| 370 | 0.26 | 0.07 |
| 360 | | |
| 350 | | |
| 340 | | |
| 330 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| | | |

| Coloration Code | |
|---|---|
| $\lambda_{80}/\lambda_5$ | 42/37 |
| | |

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