| H-ZLaF90 001254 | $n_d$ =2.00069 | $\upsilon_d$ =25.43 | $n_F - n_C$ = 0.039357 |
|---|---|---|---|
| | $n_e$ = 2.00995 | $\upsilon_e$ = 25.24 | $n_{F'} - n_{c'}$ = 0.040020 |

| Refractive Indices | | |
|---|---|---|
| | λ（nm） | |
| $n_t$ | 1014.0 | 1.96315 |
| $n_r$ | 706.5 | 1.98327 |
| $n_c$ | 656.3 | 1.98940 |
| $n_{c'}$ | 643.8 | 1.99115 |
| $n_{He-Ne}$ | 632.8 | 1.99280 |
| $n_D$ | 589.3 | 2.00035 |
| $n_d$ | 587.6 | 2.00069 |
| $n_e$ | 546.1 | 2.00995 |
| $n_F$ | 486.1 | 2.02875 |
| $n_{F'}$ | 480.0 | 2.03117 |
| $n_g$ | 435.8 | 2.05290 |
| $n_h$ | 404.7 | 2.07471 |
| $n_i$ | 365.0 | |
| | | |

| Constants of Dispersion Formula | |
|---|---|
| $A_0$ | 3.8158958 |
| $A_1$ | $-1.8881002\times10^{-2}$ |
| $A_2$ | $5.4520067\times10^{-2}$ |
| $A_3$ | $5.0890768\times10^{-3}$ |
| $A_4$ | $-4.4417574\times10^{-4}$ |
| $A_5$ | $5.0454684\times10^{-5}$ |

| Deviation of Relative Partial Dispersions Δ P from the"Normal Line | |
|---|---|
| $\Delta P_{F,e}$ | 0.0021 |
| $\Delta Pg_{,F}$ | 0.0113 |
| | |

| Relative Partial Dispersions | | | |
|---|---|---|---|
| $P_{d,c}$ | 0.2870 | $P'_{d,c'}$ | 0.2384 |
| $P_{e,d}$ | 0.2352 | $P'_{e,d}$ | 0.2313 |
| $P_{g,F}$ | 0.6137 | $P'_{g,F'}$ | 0.5431 |

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

| Thermal Properties | |
|---|---|
| $T_g$ （℃） | 683 |
| $T_s$ （℃） | 724 |
| $T_{10}^{14.5}$ （℃） | 634 |
| $T_{10}^{13}$ （℃） | 668 |
| $T_{10}^{7.6}$（℃） | 785 |
| $\alpha_{20/120℃}$($10^{-7}$/K) | 70 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 87 |
| λ (W/m • K) | |

| Mechanical Properties | |
|---|---|
| $H_K$ | 625 |
| $F_A$ | 124 |
| E ($10^7$Pa) | 12348 |
| G ($10^7$Pa) | 4756 |
| μ | 0.298 |
| B ($10^{-12}$/Pa) | |

| Other Properties | |
|---|---|
| ρ (g/cm$^3$) | 4.74 |

| Internal Transmittance | | |
|---|---|---|
| λ （nm） | τ 5 mm | τ 10 mm |
| 2400 | 0.941 | 0.886 |
| 2200 | 0.981 | 0.962 |
| 2000 | 0.992 | 0.983 |
| 1800 | 0.997 | 0.993 |
| 1600 | 0.998 | 0.997 |
| 1400 | 0.999 | 0.998 |
| 1200 | 0.999 | 0.998 |
| 1060 | 0.999 | 0.998 |
| 1000 | 0.998 | 0.997 |
| 950 | 0.998 | 0.997 |
| 900 | 0.998 | 0.997 |
| 850 | 0.998 | 0.997 |
| 800 | 0.997 | 0.995 |
| 700 | 0.995 | 0.990 |
| 650 | 0.994 | 0.988 |
| 600 | 0.992 | 0.985 |
| 550 | 0.987 | 0.975 |
| 500 | 0.970 | 0.940 |
| 480 | 0.957 | 0.915 |
| 460 | 0.939 | 0.882 |
| 440 | 0.908 | 0.825 |
| 420 | 0.849 | 0.720 |
| 400 | 0.721 | 0.520 |
| 390 | 0.602 | 0.363 |
| 380 | 0.409 | 0.167 |
| 370 | 0.148 | 0.022 |
| 360 | | |
| 350 | | |
| 340 | | |
| 330 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| | | |

| Temperature Coefficients of Refractive Index | | | | | | |
|---|---|---|---|---|---|---|
| Rang of Temperature(℃) | dn/dt rel($10^{-6}$/℃) | | | | | |
| | t | C′ | d | e | F′ | g |
| -40～-20 | 0.6 | 2.1 | 2.3 | 2.8 | 4.7 | 6.5 |
| -20～0 | 0.8 | 2.1 | 2.8 | 3.4 | 5.0 | 7.1 |
| 0～20 | 1.1 | 2.2 | 3.1 | 3.7 | 5.6 | 7.8 |
| 20～40 | 1.2 | 2.6 | 3.5 | 4.5 | 6.0 | 8.3 |
| 40～60 | 1.2 | 3.2 | 3.9 | 4.6 | 6.7 | 9.0 |
| 60～80 | 1.2 | 3.5 | 4.0 | 4.7 | 7.0 | 9.3 |

| Coloration Code | |
|---|---|
| $\lambda_{70}/\lambda_5$ | 46/38 |
| | |

CDGM