| H-LaF4 | 750350 | $n_d$ = 1.749500 | $\upsilon_d$ = 34.99 | $n_F - n_C$ = 0.021421 |
|---|---|---|---|---|
| | | $n_e$ = 1.754570 | $\upsilon_e$ = 34.72 | $n_{F'} - n_{C'}$ = 0.021730 |

**折射率 Refractive Index**

| | λ（nm） | |
|---|---|---|
| $n_{2325.42}$ | 2325.42 | 1.706156 |
| $n_{1970.09}$ | 1970.09 | 1.712027 |
| $n_{1529.58}$ | 1529.58 | 1.718696 |
| $n_{1060.0}$ | 1060.0 | 1.726945 |
| $n_t$ | 1013.98 | 1.728033 |
| $n_s$ | 852.11 | 1.732879 |
| $n_r$ | 706.52 | 1.739785 |
| $n_C$ | 656.27 | 1.743235 |
| $n_{C'}$ | 643.85 | 1.744216 |
| $n_{He-Ne}$ | 632.8 | 1.745138 |
| $n_D$ | 589.29 | 1.749313 |
| $n_d$ | 587.56 | 1.749500 |
| $n_e$ | 546.07 | 1.754570 |
| $n_F$ | 486.13 | 1.764656 |
| $n_{F'}$ | 479.99 | 1.765946 |
| $n_g$ | 435.83 | 1.777278 |
| $n_h$ | 404.66 | 1.788334 |
| $n_i$ | 365.01 | 1.808638 |
| $n_{313.18}$ | 313.18 | |
| $n_{302.15}$ | 302.15 | |

**色散公式常数 Constants of Dispersion Formula**

| | |
|---|---|
| $K_1$ | 2.10645313E-01 |
| $L_1$ | 5.42759294E-02 |
| $K_2$ | 1.75547352E+00 |
| $L_2$ | 1.12370777E-02 |
| $K_3$ | 1.28979005E+00 |
| $L_3$ | 1.19852069E+02 |

**折射率温度系数常数 Constants of dn/dt**

| | |
|---|---|
| $D_0$ | 6.53E-07 |
| $D_1$ | 1.81E-08 |
| $D_2$ | -1.59E-10 |
| $E_0$ | 9.02E-07 |
| $E_1$ | 8.16E-10 |
| $\lambda_{TK}$(μm) | 0.246 |

**相对部分色散 Relative Partial Dispersions**

| | | | |
|---|---|---|---|
| $P_{s,t}$ | 0.2262 | $P'_{s,t}$ | 0.2230 |
| $P_{C,s}$ | 0.4835 | $P'_{C',s}$ | 0.5217 |
| $P_{d,C}$ | 0.2925 | $P'_{d,C'}$ | 0.2432 |
| $P_{e,d}$ | 0.2367 | $P'_{e,d}$ | 0.2333 |
| $P_{g,F}$ | 0.5892 | $P'_{g,F'}$ | 0.5215 |
| $P_{i,h}$ | 0.9479 | $P'_{i,h}$ | 0.9344 |

**异常色散 Abnormal Dispersions**

| | | | |
|---|---|---|---|
| $\Delta P_{C,t}$ | -0.0014 | $\Delta P_{C,s}$ | -0.0010 |
| $\Delta P_{F,e}$ | 0.0004 | $\Delta P_{g,F}$ | 0.0031 |

**着色度 Color Code**

| | |
|---|---|
| $\lambda_{80}/\lambda_5$ | 405/355 |
| $\lambda_{70}/\lambda_5$ | |

**热性质 Thermal Properties**

| | |
|---|---|
| $T_g$ (℃) | 580 |
| $T_s$ (℃) | 630 |
| $T_{10}^{14.5}$ (℃) | 535 |
| $T_{10}^{13}$ (℃) | 568 |
| $T_{10}^{7.6}$(℃) | 704 |
| $\alpha_{-30/70℃}$($10^{-7}$/K) | 80 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 95 |
| λ[W/(m·K)] | |

**化学性质 Chemical Properties**

| | Grade |
|---|---|
| $D_W$ | 1 |
| $D_A$ | 2 |
| CR | 1 |
| RC(S) | 1 |
| RA(S) | 3 |

**内部透过率 Internal Transmittance τ**

| λ（nm） | τ (5mm) | τ (10mm) |
|---|---|---|
| 2400 | 0.917 | 0.841 |
| 2200 | 0.962 | 0.926 |
| 2000 | 0.985 | 0.971 |
| 1800 | 0.992 | 0.984 |
| 1600 | 0.997 | 0.995 |
| 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 | 0.999 | 0.998 |
| 800 | 0.999 | 0.998 |
| 700 | 0.998 | 0.997 |
| 650 | 0.998 | 0.996 |
| 600 | 0.998 | 0.996 |
| 550 | 0.997 | 0.994 |
| 500 | 0.994 | 0.988 |
| 480 | 0.990 | 0.981 |
| 460 | 0.987 | 0.975 |
| 440 | 0.983 | 0.967 |
| 420 | 0.974 | 0.948 |
| 400 | 0.949 | 0.900 |
| 390 | 0.917 | 0.840 |
| 380 | 0.851 | 0.725 |
| 370 | 0.691 | 0.478 |
| 360 | 0.371 | 0.138 |
| 350 | | |
| 340 | | |
| 330 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |

**折射率温度系数 Temperature Coefficients of Refractive Index**

| 温度范围（℃） Range of Temperature | dn/dt relative($10^{-6}$/℃) | | | | | |
|---|---|---|---|---|---|---|
| | t | C′ | d | e | F′ | g |
| -60～-40 | | | | | | |
| -40～-20 | 1.3 | 2.0 | 2.7 | 2.9 | 3.4 | 4.4 |
| -20～0 | 2.0 | 3.1 | 3.3 | 3.5 | 4.7 | 5.7 |
| 0～20 | 2.4 | 3.5 | 3.6 | 4.3 | 5.1 | 6.3 |
| 20～40 | 2.5 | 3.4 | 3.9 | 4.2 | 5.4 | 6.2 |
| 40～60 | 2.5 | 3.5 | 4.0 | 4.5 | 5.6 | 6.6 |
| 60～80 | 2.8 | 3.8 | 4.4 | 4.6 | 5.6 | 6.9 |
| 80～100 | | | | | | |
| 100～120 | | | | | | |
| 120～140 | | | | | | |

**机械性质 Mechanical Properties**

| | |
|---|---|
| $H_K$ ($10^7$Pa) | 545 |
| $F_A$ | 178 |
| E ($10^7$Pa) | 9105 |
| G ($10^7$Pa) | 3563 |
| μ | 0.278 |
| B ($10^{-12}$/Pa) | 2.42 |

**其他性质 Other Properties**

| | |
|---|---|
| ρ (g/cm$^3$) | 3.92 |

**备注 Remarks**

CDGM