| ZF5 | 740282 | $n_d$ = 1.74000 | $\upsilon_d$ = 28.24 | $n_F - n_C$ = 0.026200 |
|---|---|---|---|---|
| | | $n_e$ = 1.74619 | $\upsilon_e$ = 28.03 | $n_{F'} - n_{C'}$ = 0.026623 |

**折射率 Refractive Index**

| | λ（nm） | |
|---|---|---|
| $n_{2325.42}$ | 2325.42 | |
| $n_{1970.09}$ | 1970.09 | |
| $n_{1529.58}$ | 1529.58 | |
| $n_{1060.0}$ | 1060.0 | |
| $n_t$ | 1013.98 | |
| $n_s$ | 852.11 | |
| $n_r$ | 706.52 | 1.72831 |
| $n_C$ | 656.27 | 1.73243 |
| $n_{C'}$ | 643.85 | 1.73361 |
| $n_{He-Ne}$ | 632.8 | 1.73472 |
| $n_D$ | 589.29 | 1.73977 |
| $n_d$ | 587.56 | 1.74000 |
| $n_e$ | 546.07 | 1.74619 |
| $n_F$ | 486.13 | 1.75863 |
| $n_{F'}$ | 479.99 | 1.76023 |
| $n_g$ | 435.83 | 1.77439 |
| $n_h$ | 404.66 | 1.78837 |
| $n_i$ | 365.01 | 1.81447 |
| $n_{313.18}$ | 313.18 | |
| $n_{302.15}$ | 302.15 | |

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

| | |
|---|---|
| $A_0$ | 2.9160432E+00 |
| $A_1$ | -1.0435647E-02 |
| $A_2$ | 3.3907872E-02 |
| $A_3$ | 2.2728802E-03 |
| $A_4$ | -1.3563213E-04 |
| $A_5$ | 1.6527592E-05 |

**折射率温度系数常数 Constants of dn/dt**

| | |
|---|---|
| $D_0$ | |
| $D_1$ | |
| $D_2$ | |
| $E_0$ | |
| $E_1$ | |
| $\lambda_{TK}$(μm) | |

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

| | | | |
|---|---|---|---|
| $P_{s,t}$ | | $P'_{s,t}$ | |
| $P_{C,s}$ | | $P'_{C',s}$ | |
| $P_{d,C}$ | 0.2889 | $P'_{d,C'}$ | 0.2401 |
| $P_{e,d}$ | 0.2363 | $P'_{e,d}$ | 0.2325 |
| $P_{g,F}$ | 0.6015 | $P'_{g,F'}$ | 0.5319 |
| $P_{i,h}$ | | $P'_{i,h}$ | |

**异常色散 Abnormal Dispersions**

| | | | |
|---|---|---|---|
| $\Delta P_{C,t}$ | | $\Delta P_{C,s}$ | |
| $\Delta P_{F,e}$ | 0.0007 | $\Delta P_{g,F}$ | 0.0039 |

**着色度 Color Code**

| | |
|---|---|
| $\lambda_{80}/\lambda_5$ | 410/350 |
| $\lambda_{70}/\lambda_5$ | |

**热性质 Thermal Properties**

| | |
|---|---|
| $T_g$ (℃) | 430 |
| $T_s$ (℃) | 460 |
| $T_{10}^{14.5}$ (℃) | |
| $T_{10}^{13}$ (℃) | |
| $T_{10}^{7.6}$(℃) | |
| $\alpha_{-30/70℃}$($10^{-7}$/K) | 86 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 98 |
| λ[W/(m·K)] | |

**化学性质 Chemical Properties**

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

**内部透过率 Internal Transmittance τ**

| λ（nm） | τ (5mm) | τ (10mm) |
|---|---|---|
| 2400 | 0.950 | 0.903 |
| 2200 | 0.965 | 0.931 |
| 2000 | 0.980 | 0.960 |
| 1800 | 0.986 | 0.972 |
| 1600 | 0.992 | 0.984 |
| 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 | 0.999 | 0.998 |
| 650 | 0.999 | 0.998 |
| 600 | 0.999 | 0.998 |
| 550 | 0.999 | 0.998 |
| 500 | 0.998 | 0.997 |
| 480 | 0.998 | 0.997 |
| 460 | 0.997 | 0.994 |
| 440 | 0.994 | 0.988 |
| 420 | 0.984 | 0.969 |
| 400 | 0.956 | 0.914 |
| 390 | 0.920 | 0.850 |
| 380 | 0.860 | 0.740 |
| 370 | 0.730 | 0.540 |
| 360 | 0.480 | 0.230 |
| 350 | 0.150 | 0.020 |
| 340 | | |
| 330 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |

**机械性质 Mechanical Properties**

| | |
|---|---|
| $H_K$ ($10^7$Pa) | 390 |
| $F_A$ | |
| E ($10^7$Pa) | 5440 |
| G ($10^7$Pa) | 2200 |
| μ | 0.236 |
| B ($10^{-12}$/Pa) | |

**其他性质 Other Properties**

| | |
|---|---|
| ρ (g/cm$^3$) | 4.65 |

**备注 Remarks**

**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 | | | | | | |
| -20～0 | | | | | | |
| 0～20 | | | | | | |
| 20～40 | | | | | | |
| 40～60 | | | | | | |
| 60～80 | | | | | | |
| 80～100 | | | | | | |
| 100～120 | | | | | | |
| 120～140 | | | | | | |

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