| ZF52 | 847238 | $n_d$ = 1.84666 | $\upsilon_d$ = 23.83 | $n_F - n_C$ = 0.035534 |
|---|---|---|---|---|
| | | $n_e$ = 1.85504 | $\upsilon_e$ = 23.64 | $n_{F'} - n_{C'}$ = 0.036165 |

**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 | 1.81330 |
| $n_s$ | 852.11 | 1.82034 |
| $n_r$ | 706.52 | 1.83102 |
| $n_C$ | 656.27 | 1.83651 |
| $n_{C'}$ | 643.85 | 1.83808 |
| $n_{He-Ne}$ | 632.8 | 1.83957 |
| $n_D$ | 589.29 | 1.84636 |
| $n_d$ | 587.56 | 1.84666 |
| $n_e$ | 546.07 | 1.85504 |
| $n_F$ | 486.13 | 1.87205 |
| $n_{F'}$ | 479.99 | 1.87425 |
| $n_g$ | 435.83 | 1.89405 |
| $n_h$ | 404.66 | 1.91394 |
| $n_i$ | 365.01 | 1.95210 |
| $n_{313.18}$ | 313.18 | |
| $n_{302.15}$ | 302.15 | |

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

| | |
|---|---|
| $A_0$ | 3.2426450E+00 |
| $A_1$ | -7.7954583E-03 |
| $A_2$ | 5.3380862E-02 |
| $A_3$ | 1.5115415E-03 |
| $A_4$ | 7.2219474E-05 |
| $A_5$ | 1.6602659E-05 |

**折射率温度系数常数 Constants of dn/dt**

| | |
|---|---|
| $D_0$ | 5.94E-06 |
| $D_1$ | 2.59E-08 |
| $D_2$ | -2.29E-10 |
| $E_0$ | 1.88E-06 |
| $E_1$ | 1.39E-09 |
| $\lambda_{TK}$(μm) | 0.284 |

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

| | | | |
|---|---|---|---|
| $P_{s,t}$ | 0.1981 | $P'_{s,t}$ | 0.1947 |
| $P_{C,s}$ | 0.4551 | $P'_{C',s}$ | 0.4905 |
| $P_{d,C}$ | 0.2857 | $P'_{d,C'}$ | 0.2372 |
| $P_{e,d}$ | 0.2358 | $P'_{e,d}$ | 0.2317 |
| $P_{g,F}$ | 0.6191 | $P'_{g,F'}$ | 0.5475 |
| $P_{i,h}$ | | $P'_{i,h}$ | |

**异常色散 Abnormal Dispersions**

| | | | |
|---|---|---|---|
| $\Delta P_{C,t}$ | -0.0053 | $\Delta P_{C,s}$ | -0.0030 |
| $\Delta P_{F,e}$ | 0.0020 | $\Delta P_{g,F}$ | 0.0140 |

**着色度 Color Code**

| | |
|---|---|
| $\lambda_{80}/\lambda_5$ | |
| $\lambda_{70}/\lambda_5$ | 405/365 |

**热性质 Thermal Properties**

| | |
|---|---|
| $T_g$ (℃) | 409 |
| $T_s$ (℃) | 447 |
| $T_{10}^{14.5}$ (℃) | 377 |
| $T_{10}^{13}$ (℃) | 408 |
| $T_{10}^{7.6}$(℃) | 525 |
| $\alpha_{-30/70℃}$($10^{-7}$/K) | 86 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 99 |
| λ[W/(m·K)] | |

**化学性质 Chemical Properties**

| | Grade |
|---|---|
| $D_W$ | 1 |
| $D_A$ | 6 |
| CR | 1 |
| RC(S) | 1 |
| RA(S) | 3 |

**内部透过率 Internal Transmittance τ**

| λ（nm） | τ (5mm) | τ (10mm) |
|---|---|---|
| 2400 | 0.961 | 0.924 |
| 2200 | 0.977 | 0.954 |
| 2000 | 0.988 | 0.977 |
| 1800 | 0.995 | 0.990 |
| 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 | 0.999 | 0.998 |
| 800 | 0.998 | 0.996 |
| 700 | 0.998 | 0.997 |
| 650 | 0.998 | 0.997 |
| 600 | 0.998 | 0.997 |
| 550 | 0.998 | 0.997 |
| 500 | 0.996 | 0.993 |
| 480 | 0.995 | 0.990 |
| 460 | 0.991 | 0.983 |
| 440 | 0.984 | 0.969 |
| 420 | 0.964 | 0.930 |
| 400 | 0.903 | 0.820 |
| 390 | 0.830 | 0.690 |
| 380 | 0.678 | 0.460 |
| 370 | 0.400 | 0.160 |
| 360 | 0.100 | 0.010 |
| 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 | 5.4 | 7.0 | 8.8 | 9.2 | 11.4 | 13.9 |
| -20～0 | 5.8 | 7.5 | 8.8 | 10.1 | 12.2 | 16.0 |
| 0～20 | 5.8 | 9.0 | 10.0 | 10.8 | 13.5 | 17.8 |
| 20～40 | 6.7 | 9.4 | 10.2 | 11.3 | 15.0 | 18.0 |
| 40～60 | 7.0 | 9.4 | 10.3 | 11.6 | 15.2 | 17.7 |
| 60～80 | 7.7 | 9.5 | 10.6 | 12.1 | 15.3 | 18.9 |
| 80～100 | | | | | | |
| 100～120 | | | | | | |
| 120～140 | | | | | | |

**机械性质 Mechanical Properties**

| | |
|---|---|
| $H_K$ ($10^7$Pa) | 323 |
| $F_A$ | 192 |
| E ($10^7$Pa) | 5282 |
| G ($10^7$Pa) | 2107 |
| μ | 0.253 |
| B ($10^{-12}$/Pa) | 0.09 |

**其他性质 Other Properties**

| | |
|---|---|
| ρ (g/cm$^3$) | 5.49 |

**备注 Remarks**

CDGM