

| ZF50 | | | 741278 | | | n _d = 1.74077 | | v _d = 27.76 | | n _F - n _C = 0.026681 | |
|--|----------------|---------|--|--------|--------------------|--------------------------|---------------------------------|--------------------------------------|-------------------|--|-------|
| | | | | | | n _e = 1.74706 | | v _e = 27.55 | | n _{F'} - n _{C'} = 0.027118 | |
| 折射率 Refractive Index | | | 相对部分色散 Relative Partial Dispersions | | | | 内部透射率 Internal Transmittance T | | | | |
| | λ (nm) | | P _{s,t} | 0.2091 | P' _{s,t} | 0.2058 | λ (nm) | τ (5mm) | τ (10mm) | | |
| n _{2325.42} | 2325.42 | | P _{C,s} | 0.4633 | P' _{C',s} | 0.5000 | 2400 | 0.948 | 0.898 | | |
| n _{1970.09} | 1970.09 | | P _{d,C} | 0.2886 | P' _{d,C'} | 0.2397 | 2200 | 0.962 | 0.925 | | |
| n _{1529.58} | 1529.58 | | P _{e,d} | 0.2358 | P' _{e,d} | 0.2320 | 2000 | 0.982 | 0.965 | | |
| n _{1060.0} | 1060.0 | | P _{g,F} | 0.6035 | P' _{g,F'} | 0.5333 | 1800 | 0.990 | 0.981 | | |
| n _t | 1013.98 | 1.71513 | P _{i,h} | | P' _{i,h} | | 1600 | 0.997 | 0.995 | | |
| n _s | 852.11 | 1.72071 | 异常色散 Abnormal Dispersions | | | | 1400 | 0.999 | 0.998 | | |
| n _r | 706.52 | 1.72889 | | | | | ΔP _{C,t} | -0.0047 | ΔP _{C,s} | -0.0041 | 1200 |
| n _C | 656.27 | 1.73307 | ΔP _{F,e} | 0.0012 | ΔP _{g,F} | 0.0050 | 1060 | 0.999 | 0.998 | | |
| n _{C'} | 643.85 | 1.73427 | 着色度 Color Code | | | | 1000 | 0.999 | 0.998 | | |
| n _{He-Ne} | 632.8 | 1.73540 | | | | | λ ₈₀ /λ ₅ | 410/365 | | 950 | 0.999 |
| n _D | 589.29 | 1.74054 | λ ₇₀ /λ ₅ | | | 900 | 0.999 | 0.998 | | | |
| n _d | 587.56 | 1.74077 | 热性质 Thermal Properties | | | | 850 | 0.999 | 0.998 | | |
| n _e | 546.07 | 1.74706 | | | | | T _g (°C) | 449 | | 800 | 0.999 |
| n _F | 486.13 | 1.75975 | T _s (°C) | 491 | | 700 | 0.998 | 0.997 | | | |
| n _{F'} | 479.99 | 1.76139 | T ₁₀ ^{14.5} (°C) | 388 | | 650 | 0.998 | 0.997 | | | |
| n _g | 435.83 | 1.77585 | T ₁₀ ¹³ (°C) | 426 | | 600 | 0.998 | 0.996 | | | |
| n _h | 404.66 | 1.79021 | T ₁₀ ^{7.6} (°C) | 71 | | 550 | 0.998 | 0.996 | | | |
| n _i | 365.01 | | α _{30/70°C} (10 ⁻⁷ /K) | 87 | | 500 | 0.996 | 0.992 | | | |
| n _{313.18} | 313.18 | | α _{100/300°C} (10 ⁻⁷ /K) | | | 480 | 0.994 | 0.989 | | | |
| n _{302.15} | 302.15 | | λ[W/(m·K)] | | | 460 | 0.991 | 0.983 | | | |
| 色散公式常数 Constants of Dispersion Formula | | | 化学性质 Chemical Properties | | | | 440 | 0.986 | 0.973 | | |
| | | | | | | | A ₀ | 2.9228084E+00 | | Grade | 420 |
| A ₁ | -1.3029549E-02 | | D _w | 1 | | 400 | 0.904 | 0.818 | | | |
| A ₂ | 2.9540007E-02 | | D _A | 2 | | 390 | 0.790 | 0.630 | | | |
| A ₃ | 4.1308365E-03 | | CR | | | 380 | 0.550 | 0.300 | | | |
| A ₄ | -4.4721542E-04 | | RC(S) | 1 | | 370 | 0.190 | 0.030 | | | |
| A ₅ | 3.7137603E-05 | | RA(S) | 3 | | 360 | | | | | |
| 折射率温度系数常数 Constants of dn/dt | | | 机械性质 Mechanical Properties | | | | 350 | | | | |
| | | | | | | | D ₀ | 3.66E-06 | | H _k (10 ⁷ Pa) | 375 |
| D ₁ | 2.91E-08 | | 折射率温度系数 Temperature Coefficients of Refractive Index | | | | F _A | 131 | | | |
| D ₂ | -3.18E-10 | | | | | | 温度范围 (°C) | dn/dt relative(10 ⁻⁶ /°C) | | | |
| E ₀ | 1.58E-06 | | Range of Temperature | t | C' | d | e | F' | g | E (10 ⁷ Pa) | 5973 |
| E ₁ | 6.74E-10 | | -60~-40 | | | | | | | G (10 ⁷ Pa) | 2411 |
| λ _{TK} (μm) | 0.244 | | -40~-20 | -0.1 | 1.1 | 1.5 | 2.4 | 2.8 | 5.4 | μ | 0.238 |
| 其他性质 Other Properties | | | -20~0 | 2.0 | 3.0 | 3.9 | 4.3 | 6.9 | 7.7 | B (10 ⁻¹² /Pa) | |
| | | | 0~20 | 2.8 | 4.7 | 5.0 | 6.0 | 7.6 | 9.3 | ρ (g/cm ³) | |
| 备注 Remarks | | | 20~40 | 3.0 | 5.0 | 5.5 | 6.3 | 7.8 | 10.1 | | |
| | | | 40~60 | 3.3 | 5.1 | 5.8 | 6.3 | 7.8 | 10.1 | | |
| | | | 60~80 | 4.0 | 5.7 | 6.3 | 6.9 | 8.4 | 10.5 | | |
| | | | 80~100 | | | | | | | | |
| | | | 100~120 | | | | | | | | |
| | | | 120~140 | | | | | | | | |