

| ZF7L | | | 805255 | | | n _d = 1.80518 | | v _d = 25.46 | | n _F - n _C = 0.031620 | |
|---|----------------|----------|--|---|--------------------|--------------------------|---------------------------------------|-------------------------------------|----------|--|--|
| | | | | | | n _e = 1.81265 | | v _e = 25.27 | | n _{F'} - n _{C'} = 0.032161 | |
| 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} | 0.2018 | P' _{s,t} | 0.1984 | λ (nm) | τ (5mm) | τ (10mm) | | |
| n _{2325.42} | 2325.42 | | P _{C,s} | 0.4583 | P' _{C',s} | 0.4944 | 2400 | 0.950 | 0.903 | | |
| n _{1970.09} | 1970.09 | | P _{d,C} | 0.2870 | P' _{d,C'} | 0.2384 | 2200 | 0.965 | 0.931 | | |
| n _{1529.58} | 1529.58 | | P _{e,d} | 0.2360 | P' _{e,d} | 0.2320 | 2000 | 0.980 | 0.960 | | |
| n _{1060.0} | 1060.0 | | P _{g,F} | 0.6097 | P' _{g,F'} | 0.5389 | 1800 | 0.990 | 0.980 | | |
| n _t | 1013.98 | 1.77524 | P _{i,h} | | P' _{i,h} | | 1600 | 0.996 | 0.992 | | |
| n _s | 852.11 | 1.78162 | 异常色散 Abnormal Dispersions | | | | 1400 | 0.999 | 0.998 | | |
| n _r | 706.52 | 1.79120 | ΔP _{C,t} | -0.0062 | ΔP _{C,s} | -0.0037 | 1200 | 0.999 | 0.998 | | |
| n _C | 656.27 | 1.79611 | ΔP _{F,e} | 0.0015 | ΔP _{g,F} | 0.0074 | 1060 | 0.999 | 0.998 | | |
| n _{C'} | 643.85 | 1.79752 | 着色度 Color Code | | | | 1000 | 0.999 | 0.998 | | |
| n _{He-Ne} | 632.8 | 1.79885 | λ ₈₀ /λ ₅ | | 425/360 | | 950 | 0.999 | 0.998 | | |
| n _D | 589.29 | 1.80491 | λ ₇₀ /λ ₅ | | | | 900 | 0.999 | 0.998 | | |
| n _d | 587.56 | 1.80518 | 热性质 Thermal Properties | | | | 850 | 0.999 | 0.998 | | |
| n _e | 546.07 | 1.81265 | T _g (°C) | | 430 | | 800 | 0.998 | 0.996 | | |
| n _F | 486.13 | 1.82773 | T _s (°C) | | 465 | | 700 | 0.997 | 0.995 | | |
| n _{F'} | 479.99 | 1.82968 | T ₁₀ ^{14.5} (°C) | | 383 | | 650 | 0.997 | 0.995 | | |
| n _g | 435.83 | 1.84701 | T ₁₀ ¹³ (°C) | | 423 | | 600 | 0.997 | 0.995 | | |
| n _h | 404.66 | 1.86427 | T ₁₀ ^{7.6} (°C) | | 549 | | 550 | 0.997 | 0.994 | | |
| n _i | 365.01 | 1.89697 | α _{30/70°C} (10 ⁻⁷ /K) | | 79 | | 500 | 0.994 | 0.989 | | |
| n _{313.18} | 313.18 | | α _{100/300°C} (10 ⁻⁷ /K) | | 91 | | 480 | 0.991 | 0.982 | | |
| n _{302.15} | 302.15 | | λ[W/(m·K)] | | | | 460 | 0.986 | 0.973 | | |
| 色散公式常数 Constants of Dispersion Formula | | | 化学性质 Chemical Properties | | | | 440 | 0.977 | 0.955 | | |
| A ₀ | 3.1172453E+00 | | Grade | | | | 420 | 0.956 | 0.914 | | |
| A ₁ | -9.7795868E-03 | | D _w | | | | 400 | 0.900 | 0.810 | | |
| A ₂ | 4.3175256E-02 | | D _A | | | | 390 | 0.840 | 0.710 | | |
| A ₃ | 2.5227958E-03 | | CR | | | | 380 | 0.750 | 0.560 | | |
| A ₄ | -1.1739974E-04 | | RC(S) | | | | 370 | 0.570 | 0.320 | | |
| A ₅ | 2.0788116E-05 | | RA(S) | | | | 360 | 0.280 | 0.080 | | |
| 折射率温度系数常数 Constants of dn/dt | | | | | | | 350 | | | | |
| D ₀ | 5.35E-06 | | | | | | 340 | | | | |
| D ₁ | 1.94E-08 | | | | | | 330 | | | | |
| D ₂ | -4.68E-11 | | | | | | 320 | | | | |
| E ₀ | 1.77E-06 | | | | | | 310 | | | | |
| E ₁ | 1.30E-09 | | | | | | 300 | | | | |
| λ _{TK} (μm) | 0.270 | | | | | | 290 | | | | |
| 折射率温度系数 Temperature Coefficients of Refractive Index | | | | | | | 280 | | | | |
| 温度范围 (°C) | | | | dn/dt relative(10⁻⁶/°C) | | | | 机械性质 Mechanical Properties | | | |
| Range of Temperature | | t | C' | d | e | F' | g | H _k (10 ⁷ Pa) | | 330 | |
| -60~-40 | | 4.3 | 6.2 | 7.8 | 8.5 | 10.6 | 12.9 | F _A | | 143 | |
| -40~-20 | | 5.4 | 7.3 | 8.3 | 8.7 | 10.8 | 13.6 | E (10 ⁷ Pa) | | 5484 | |
| -20~0 | | 5.7 | 8.2 | 8.6 | 9.7 | 11.8 | 14.6 | G (10 ⁷ Pa) | | 2237 | |
| 0~20 | | 5.9 | 8.1 | 8.8 | 9.8 | 12.2 | 14.8 | μ | | 0.226 | |
| 20~40 | | 6.3 | 8.6 | 9.2 | 10.1 | 12.7 | 15.3 | B (10 ⁻¹² /Pa) | | 0.66 | |
| 40~60 | | 6.5 | 8.7 | 9.6 | 10.7 | 13.2 | 16.0 | 其他性质 Other Properties | | | |
| 60~80 | | 6.5 | 8.8 | 10.0 | 10.9 | 13.4 | 16.4 | ρ (g/cm ³) | | 5.19 | |
| 80~100 | | 6.6 | 9.1 | 10.1 | 10.9 | 13.6 | 16.6 | 备注 Remarks | | | |
| 100~120 | | 6.8 | 9.5 | 10.5 | 11.6 | 14.1 | 17.4 | | | | |
| 120~140 | | 7.0 | 9.6 | 11.0 | 12.1 | 14.6 | 17.8 | | | | |