

| H-LaF7 | | | 782371 | | n _d = 1.781790 | | v _d = 37.09 | | n _F - n _C = 0.021077 | | |
|--|----------------|----------|--|---------|---------------------------|---------|---------------------------------|----------------|--|-------------------------------------|------------------------|
| | | | | | n _e = 1.786785 | | v _e = 36.83 | | n _{F'} - n _{C'} = 0.021362 | | |
| 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} | 0.2332 | P' _{s,t} | 0.2301 | λ (nm) | τ (5mm) | τ (10mm) | | |
| n _{2325.42} | 2325.42 | 1.736936 | P _{C,s} | 0.4910 | P' _{C',s} | 0.5300 | 2400 | 0.901 | 0.812 | | |
| n _{1970.09} | 1970.09 | 1.743369 | P _{d,C} | 0.2942 | P' _{d,C'} | 0.2447 | 2200 | 0.964 | 0.930 | | |
| n _{1529.58} | 1529.58 | 1.750575 | P _{e,d} | 0.2370 | P' _{e,d} | 0.2338 | 2000 | 0.985 | 0.970 | | |
| n _{1060.0} | 1060.0 | 1.759212 | P _{g,F} | 0.5816 | P' _{g,F'} | 0.5150 | 1800 | 0.993 | 0.986 | | |
| n _t | 1013.98 | 1.760326 | P _{i,h} | 0.9139 | P' _{i,h} | 0.9017 | 1600 | 0.998 | 0.995 | | |
| n _s | 852.11 | 1.765241 | 异常色散 Abnormal Dispersions | | | | 1400 | 0.998 | 0.997 | | |
| n _r | 706.52 | 1.772157 | | | | | ΔP _{C,t} | 0.0031 | ΔP _{C,s} | 0.0015 | 1200 |
| n _C | 656.27 | 1.775589 | ΔP _{F,e} | -0.0005 | ΔP _{g,F} | -0.0009 | 1060 | 0.999 | 0.998 | | |
| n _{C'} | 643.85 | 1.776562 | 着色度 Color Code | | | | 1000 | 0.999 | 0.998 | | |
| n _{He-Ne} | 632.8 | 1.777476 | | | | | λ ₈₀ /λ ₅ | 410/350 | | 950 | 0.999 |
| n _D | 589.29 | 1.781606 | λ ₇₀ /λ ₅ | | | 900 | 0.999 | 0.998 | | | |
| n _d | 587.56 | 1.781790 | 热性质 Thermal Properties | | | | 850 | 0.999 | 0.998 | | |
| n _e | 546.07 | 1.786785 | | | | | T _g (°C) | 659 | | 800 | 0.999 |
| n _F | 486.13 | 1.796666 | T _s (°C) | 699 | | 700 | 0.998 | 0.996 | | | |
| n _{F'} | 479.99 | 1.797924 | T ₁₀ ^{14.5} (°C) | 603 | | 650 | 0.998 | 0.996 | | | |
| n _g | 435.83 | 1.808925 | T ₁₀ ¹³ (°C) | 650 | | 420 | 0.997 | 0.995 | | | |
| n _h | 404.66 | 1.819562 | T ₁₀ ^{7.6} (°C) | 763 | | 400 | 0.997 | 0.995 | | | |
| n _i | 365.01 | 1.838825 | α _{30/70°C} (10 ⁻⁷ /K) | 80 | | 390 | 0.995 | 0.991 | | | |
| n _{313.18} | 313.18 | | α _{100/300°C} (10 ⁻⁷ /K) | 95 | | 380 | 0.994 | 0.988 | | | |
| n _{302.15} | 302.15 | | λ[W/(m·K)] | | | 370 | 0.991 | 0.983 | | | |
| 色散公式常数 Constants of Dispersion Formula | | | 化学性质 Chemical Properties | | | | 360 | 0.986 | 0.973 | | |
| | | | | | | | K ₁ | 1.85620526E+00 | | Grade | 440 |
| L ₁ | 1.09606128E-02 | | D _w | 1 | | 420 | 0.956 | 0.914 | | | |
| K ₂ | 1.38494652E+00 | | D _A | 5 | | 390 | 0.930 | 0.864 | | | |
| L ₂ | 1.14477380E+02 | | CR | 1 | | 380 | 0.880 | 0.774 | | | |
| K ₃ | 2.23526441E-01 | | RC(S) | 1 | | 370 | 0.774 | 0.599 | | | |
| L ₃ | 5.05771615E-02 | | RA(S) | 3 | | 360 | 0.562 | 0.316 | | | |
| 折射率温度系数常数 Constants of dn/dt | | | 机械性质 Mechanical Properties | | | | 350 | 0.224 | 0.050 | | |
| | | | | | | | D ₀ | -1.02E-06 | | H _k (10 ⁷ Pa) | 571 |
| D ₁ | 1.70E-08 | | 折射率温度系数 Temperature Coefficients of Refractive Index | | | | F _A | 161 | | | |
| D ₂ | -1.39E-10 | | | | | | 温度范围 (°C) | | dn/dt relative(10 ⁻⁶ /°C) | | E (10 ⁷ Pa) |
| E ₀ | 6.63E-07 | | t | C' | d | e | | | | | F' |
| E ₁ | 4.31E-10 | | -60~-40 | | | | | | μ | 0.286 | |
| λ _{TK} (μm) | 0.279 | | -40~-20 | 0.4 | 0.7 | 1.5 | 1.7 | 2.0 | 3.4 | B (10 ⁻¹² /Pa) | 1.76 |
| 折射率温度系数 Temperature Coefficients of Refractive Index | | | -20~0 | 0.9 | 1.7 | 2.5 | 2.7 | 3.7 | 4.2 | 其他性质 Other Properties | |
| | | | 0~20 | 1.3 | 2.0 | 2.5 | 2.9 | 3.7 | 4.4 | | |
| 温度范围 (°C) | | | 20~40 | 1.4 | 2.2 | 2.6 | 2.9 | 3.7 | 5.0 | ρ (g/cm ³) | |
| | | | 40~60 | 1.6 | 2.3 | 2.7 | 2.9 | 3.8 | 5.2 | | |
| Range of Temperature | | | 60~80 | 1.7 | 2.5 | 2.7 | 3.0 | 3.9 | 5.1 | 备注 Remarks | |
| | | | 80~100 | | | | | | | | |
| Range of Temperature | | | 100~120 | | | | | | | | |
| | | | 120~140 | | | | | | | | |