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|---|----------------|---------------|---|------------------|------------------|------------------------------|--|--------------|-----------------------------------|--|
| D-LaF050 | | 768493 | | $n_d = 1.768420$ | $v_d = 49.28$ | $n_F - n_C = 0.015592$ | | | | |
| | | | | $n_e = 1.772133$ | $v_e = 49.04$ | $n_{F'} - n_{C'} = 0.015744$ | | | | |
| 折射率 Refractive Index* | | | 相对部分色散 Relative Partial Dispersions | | | | 内部透射率 Internal Transmittance T | | | |
| | λ (nm) | | $P_{s,t}$ | 0.2676 | $P'_{s,t}$ | 0.2650 | λ (nm) | τ (5mm) | τ (10mm) | |
| $n_{2325.42}$ | 2325.42 | 1.726544 | $P_{C,s}$ | 0.5253 | $P'_{C',s}$ | 0.5676 | 2400 | 0.830 | 0.680 | |
| $n_{1970.09}$ | 1970.09 | 1.734011 | $P_{d,C}$ | 0.3016 | $P'_{d,C'}$ | 0.2513 | 2200 | 0.954 | 0.911 | |
| $n_{1529.58}$ | 1529.58 | 1.741949 | $P_{e,d}$ | 0.2381 | $P'_{e,d}$ | 0.2358 | 2000 | 0.983 | 0.966 | |
| $n_{1060.0}$ | 1060.0 | 1.750367 | $P_{g,F}$ | 0.5524 | $P'_{g,F'}$ | 0.4900 | 1800 | 0.995 | 0.991 | |
| n_t | 1013.98 | 1.751355 | $P_{i,h}$ | 0.7972 | $P'_{i,h}$ | 0.7895 | 1600 | 0.999 | 0.998 | |
| n_s | 852.11 | 1.755527 | | | | | 1400 | 0.999 | 0.998 | |
| n_r | 706.52 | 1.761059 | 异常色散 Abnormal Dispersions | | | | 1200 | 0.999 | 0.998 | |
| n_C | 656.27 | 1.763717 | $\Delta P_{C,t}$ | 0.0144 | $\Delta P_{C,s}$ | 0.0070 | 1060 | 0.999 | 0.998 | |
| $n_{C'}$ | 643.85 | 1.764463 | $\Delta P_{F,e}$ | -0.0025 | $\Delta P_{g,F}$ | -0.0094 | 1000 | 0.999 | 0.998 | |
| n_{He-Ne} | 632.8 | 1.765161 | | | | | 950 | 0.999 | 0.998 | |
| n_D | 589.29 | 1.768282 | | | | | 900 | 0.999 | 0.998 | |
| n_d | 587.56 | 1.768420 | 着色度 Color Code | | | | 850 | 0.999 | 0.998 | |
| n_e | 546.07 | 1.772133 | λ_{80}/λ_5 | | 375/285 | | 800 | 0.998 | 0.997 | |
| n_F | 486.13 | 1.779309 | λ_{70}/λ_5 | | | | 700 | 0.998 | 0.997 | |
| $n_{F'}$ | 479.99 | 1.780207 | | | | | 650 | 0.998 | 0.996 | |
| n_g | 435.83 | 1.787922 | | | | | 600 | 0.998 | 0.996 | |
| n_h | 404.66 | 1.795137 | | | | | 550 | 0.998 | 0.996 | |
| n_i | 365.01 | 1.807567 | 热性质 Thermal Properties | | | | 500 | 0.996 | 0.993 | |
| $n_{313.18}$ | 313.18 | 1.833401 | T_g (°C) | | 610 | | 480 | 0.995 | 0.990 | |
| $n_{302.15}$ | 302.15 | 1.841211 | T_s (°C) | | 644 | | 460 | 0.993 | 0.987 | |
| | | | $T_{10}^{14.5}$ (°C) | | 566 | | 440 | 0.992 | 0.984 | |
| | | | T_{10}^{13} (°C) | | 596 | | 420 | 0.989 | 0.979 | |
| | | | $T_{10}^{7.6}$ (°C) | | 692 | | 400 | 0.984 | 0.969 | |
| 色散公式常数 Constants of Dispersion Formula | | | $\alpha_{30/70^\circ\text{C}} (10^{-7}/\text{K})$ | | 57 | | 390 | 0.979 | 0.959 | |
| K_1 | 6.53249512E-01 | | $\alpha_{100/300^\circ\text{C}} (10^{-7}/\text{K})$ | | 74 | | 380 | 0.971 | 0.942 | |
| L_1 | 2.36442880E-02 | | $\lambda[W/(m\cdot K)]$ | | | | 370 | 0.954 | 0.911 | |
| K_2 | 1.20557745E+00 | | | | | | 360 | 0.927 | 0.860 | |
| L_2 | 8.55377962E+01 | | | | | | 350 | 0.890 | 0.790 | |
| K_3 | 1.40453781E+00 | | 化学性质 Chemical Properties | | | | 340 | 0.830 | 0.690 | |
| L_3 | 6.36401500E-03 | | | | | | 330 | 0.750 | 0.560 | |
| | | | Grade | | | | 320 | 0.650 | 0.420 | |
| 折射率温度系数常数 Constants of dn/dt | | | D_w | | 1 | | 310 | 0.480 | 0.230 | |
| D_0 | 4.01E-06 | | D_A | | 3 | | 300 | 0.400 | 0.160 | |
| D_1 | 1.55E-08 | | CR | | 1 | | 290 | 0.260 | 0.070 | |
| D_2 | -3.41E-11 | | RC(S) | | 1 | | 280 | | | |
| E_0 | 5.74E-07 | | RA(S) | | 3 | | | | | |
| E_1 | 4.46E-10 | | | | | | | | | |
| $\lambda_{TK}(\mu\text{m})$ | 0.215 | | | | | | | | | |
| | | | | | | | 机械性质 Mechanical Properties | | | |
| 折射率温度系数 Temperature Coefficients of Refractive Index | | | | | | | H_k (10^7Pa) | | 756 | |
| 温度范围 (°C) | | | dn/dt relative ($10^{-6}/^\circ\text{C}$) | | | | F_A | | 104 | |
| Range of Temperature | | | t | C' | d | e | F' | g | E (10^7Pa) | |
| -60~-40 | | | 3.8 | 4.6 | 4.7 | 5.1 | 5.5 | 5.8 | 12276 | |
| -40~-20 | | | 3.8 | 4.6 | 4.8 | 5.3 | 5.7 | 6.1 | G (10^7Pa) | |
| -20~0 | | | 4.1 | 4.7 | 4.9 | 5.0 | 5.8 | 6.2 | 4751 | |
| 0~20 | | | 4.2 | 5.0 | 5.1 | 5.3 | 5.9 | 6.4 | μ | |
| 20~40 | | | 4.4 | 5.1 | 5.3 | 5.5 | 6.1 | 6.7 | 0.292 | |
| 40~60 | | | 4.6 | 5.3 | 5.5 | 5.7 | 6.4 | 6.9 | B ($10^{-12}/\text{Pa}$) | |
| 60~80 | | | 4.7 | 5.3 | 5.7 | 5.9 | 6.6 | 7.2 | 1.75 | |
| 80~100 | | | 4.8 | 5.4 | 5.8 | 6.0 | 6.8 | 7.5 | 其他性质 Other Properties | |
| 100~120 | | | 4.9 | 5.5 | 5.8 | 6.1 | 6.8 | 7.4 | ρ (g/cm^3) | |
| 120~140 | | | 5.0 | 5.6 | 5.8 | 6.2 | 6.8 | 7.5 | 4.51 | |
| | | | | | | | 备注 Remarks | | | |
| | | | | | | | *: 退火速率 anneal rate $4^\circ\text{C}/\text{h}$ | | | |