

| | | | |
|------------------------------|-----------------|---------------|------------------------------|
| H-LaF76 762401 | $n_d = 1.76200$ | $v_d = 40.09$ | $n_F - n_C = 0.019010$ |
| | $n_e = 1.76651$ | $v_e = 39.86$ | $n_{F'} - n_{C'} = 0.019232$ |

| Refractive Indices | | |
|--------------------|----------------------|-------------|
| | $\lambda(\text{nm})$ | n_λ |
| n_{2325} | 2325.42 | 1.71750 |
| n_{1970} | 1970.09 | 1.72452 |
| n_{1530} | 1529.58 | 1.73233 |
| n_{1129} | 1128.64 | 1.73966 |
| n_t | 1013.98 | 1.74222 |
| n_s | 852.11 | 1.74684 |
| $n_{A'}$ | 768.19 | 1.75015 |
| n_r | 706.52 | 1.75324 |
| n_C | 656.27 | 1.75638 |
| $n_{C'}$ | 643.85 | 1.75727 |
| $n_{\text{He-Ne}}$ | 632.80 | 1.75810 |
| n_D | 589.29 | 1.76183 |
| n_d | 587.56 | 1.76200 |
| n_e | 546.07 | 1.76651 |
| n_F | 486.13 | 1.77539 |
| $n_{F'}$ | 479.99 | 1.77651 |
| n_g | 435.84 | 1.78630 |
| n_h | 404.66 | 1.79568 |
| n_i | 365.01 | 1.81262 |

| Constants of Dispersion Formula | |
|---------------------------------|-----------------|
| A_0 | 3.02361073E+00 |
| A_1 | -1.45464427E-02 |
| A_2 | 2.60235852E-02 |
| A_3 | 1.53298075E-03 |
| A_4 | -1.19139674E-04 |
| A_5 | 1.02746803E-05 |

| Relative Partial Dispersions | | | |
|------------------------------|--------|-------------|--------|
| $P_{d,C}$ | 0.2956 | $P'_{d,C'}$ | 0.2458 |
| $P_{e,d}$ | 0.2372 | $P'_{e,d}$ | 0.2344 |
| $P_{g,F}$ | 0.5739 | $P'_{g,F'}$ | 0.5088 |

| Range of Temperature (°C) | Temperature Coefficients of Refractive Index | | | | | | |
|---------------------------|---|-----|-------|-----|-----|-----|-----|
| | dn/dt relative ($10^{-6} / ^\circ\text{C}$) | | | | | | |
| | t | C' | He-Ne | D | e | F' | g |
| -40 ~ -20 | 2.5 | 3.1 | 3.1 | 3.3 | 3.6 | 4.2 | 4.9 |
| -20 ~ 0 | 2.4 | 3.1 | 3.2 | 3.4 | 3.7 | 4.3 | 5.1 |
| 0 ~ 20 | 2.4 | 3.2 | 3.2 | 3.4 | 3.7 | 4.5 | 5.2 |
| 20 ~ 40 | 2.4 | 3.2 | 3.3 | 3.5 | 3.8 | 4.6 | 5.4 |
| 40 ~ 60 | 2.5 | 3.3 | 3.4 | 3.6 | 4.0 | 4.7 | 5.6 |
| 60 ~ 80 | 2.6 | 3.5 | 3.5 | 3.8 | 4.1 | 4.9 | 5.8 |

| Chemical Properties (grade) | |
|-----------------------------|---|
| RC(S) | 1 |
| RA(S) | 3 |
| D_W | 1 |
| D_A | 4 |
| $R_{OH}(S)$ | 1 |
| RP(S) | 1 |

| Thermal Properties | |
|--|-----|
| $T_g(^{\circ}\text{C})$ | 640 |
| $T_s(^{\circ}\text{C})$ | 680 |
| $T_{10}^{14.5}(^{\circ}\text{C})$ | 589 |
| $T_{10}^{13}(^{\circ}\text{C})$ | 625 |
| $\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$ | 62 |
| $\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$ | 74 |

| Mechanical Properties | |
|--|-------|
| HK(10^7Pa) | 563 |
| F_A | 118 |
| $E(10^7\text{Pa})$ | 10150 |
| $G(10^7\text{Pa})$ | 3909 |
| μ | 0.298 |
| $B(\text{nm}/\text{cm}/10^5\text{Pa})$ | 1.800 |

| Density | |
|------------------------------|------|
| $\rho(\text{g}/\text{cm}^3)$ | 3.97 |

| Deviation of Relative Partial Dispersions | |
|---|---------|
| $\Delta P_{F,e}$ | -0.0009 |
| $\Delta P_{g,F}$ | -0.0031 |
| $\Delta P_{C,t}$ | 0.0105 |
| $\Delta P_{C,s}$ | 0.0052 |

| Internal Transmittance | | |
|------------------------|-------------------|----------------------|
| $\lambda(\text{nm})$ | $\tau_5\text{mm}$ | $\tau_{10}\text{mm}$ |
| 2400 | 0.872 | 0.760 |
| 2200 | 0.976 | 0.953 |
| 2000 | 0.990 | 0.980 |
| 1800 | 0.998 | 0.996 |
| 1600 | 0.998 | 0.996 |
| 1400 | 0.998 | 0.996 |
| 1200 | 0.998 | 0.996 |
| 1060 | 0.998 | 0.996 |
| 1000 | 0.998 | 0.996 |
| 900 | 0.998 | 0.996 |
| 850 | 0.998 | 0.996 |
| 800 | 0.998 | 0.996 |
| 750 | 0.998 | 0.996 |
| 700 | 0.998 | 0.996 |
| 650 | 0.998 | 0.996 |
| 600 | 0.998 | 0.996 |
| 550 | 0.998 | 0.996 |
| 500 | 0.996 | 0.992 |
| 480 | 0.994 | 0.988 |
| 460 | 0.992 | 0.984 |
| 440 | 0.990 | 0.980 |
| 420 | 0.984 | 0.970 |
| 400 | 0.972 | 0.942 |
| 390 | 0.959 | 0.916 |
| 380 | 0.932 | 0.860 |
| 370 | 0.871 | 0.745 |
| 360 | 0.713 | 0.487 |
| 350 | 0.368 | 0.124 |
| 340 | | |
| 330 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |

| Coloration Code | |
|--|---------|
| $\lambda_{80}(\lambda_{70})/\lambda_5$ | 400/350 |

| Coloration of Internal Transmittance | |
|--------------------------------------|---------|
| $\lambda\tau_{80}/\lambda\tau_5$ | 374/347 |