

|                                                               |                |                                      |                                             |         |                           |                                  |                                       |                            |                                              |       |
|---------------------------------------------------------------|----------------|--------------------------------------|---------------------------------------------|---------|---------------------------|----------------------------------|---------------------------------------|----------------------------|----------------------------------------------|-------|
| D-LaF050-25                                                   |                |                                      | 767492                                      |         | n <sub>d</sub> = 1.767090 |                                  | v <sub>d</sub> = 49.20                |                            | n <sub>F</sub> - n <sub>C</sub> = 0.015592   |       |
|                                                               |                |                                      |                                             |         | n <sub>e</sub> = 1.770803 |                                  | v <sub>e</sub> = 48.96                |                            | n <sub>F'</sub> - n <sub>C'</sub> = 0.015745 |       |
|                                                               |                |                                      |                                             |         |                           |                                  |                                       |                            |                                              |       |
| 折 射 率    Refractive Index**                                   |                |                                      | 相 对 部 分 色 散    Relative Partial Dispersions |         |                           |                                  | 内 部 透 过 率    Internal Transmittance τ |                            |                                              |       |
|                                                               | λ (nm)         |                                      | P <sub>s,t</sub>                            | 0.2675  | P' <sub>s,t</sub>         | 0.2649                           | λ (nm)                                | τ (5mm)                    | τ (10mm)                                     |       |
| n <sub>2325.42</sub>                                          | 2325.42        | 1.725246                             | P <sub>C,s</sub>                            | 0.5253  | P' <sub>C',s</sub>        | 0.5675                           | 2400                                  | 0.830                      | 0.680                                        |       |
| n <sub>1970.09</sub>                                          | 1970.09        | 1.732697                             | P <sub>d,C</sub>                            | 0.3017  | P' <sub>d,C'</sub>        | 0.2514                           | 2200                                  | 0.954                      | 0.911                                        |       |
| n <sub>1529.58</sub>                                          | 1529.58        | 1.740623                             | P <sub>e,d</sub>                            | 0.2381  | P' <sub>e,d</sub>         | 0.2358                           | 2000                                  | 0.983                      | 0.966                                        |       |
| n <sub>1060.0</sub>                                           | 1060.0         | 1.749037                             | P <sub>g,F</sub>                            | 0.5525  | P' <sub>g,F'</sub>        | 0.4900                           | 1800                                  | 0.995                      | 0.991                                        |       |
| n <sub>t</sub>                                                | 1013.98        | 1.750025                             | P <sub>i,h</sub>                            | 0.7972  | P' <sub>i,h</sub>         | 0.7895                           | 1600                                  | 0.999                      | 0.998                                        |       |
| n <sub>s</sub>                                                | 852.11         | 1.754196                             |                                             |         |                           |                                  | 1400                                  | 0.999                      | 0.998                                        |       |
| n <sub>r</sub>                                                | 706.52         | 1.759729                             | 异常色散    Abnormal Dispersions                |         |                           |                                  | 1200                                  | 0.999                      | 0.998                                        |       |
| n <sub>C</sub>                                                | 656.27         | 1.762386                             | ΔP <sub>C,t</sub>                           | 0.0147  | ΔP <sub>C,s</sub>         | 0.0072                           | 1060                                  | 0.999                      | 0.998                                        |       |
| n <sub>C'</sub>                                               | 643.85         | 1.763132                             | ΔP <sub>F,e</sub>                           | -0.0026 | ΔP <sub>g,F</sub>         | -0.0095                          | 1000                                  | 0.999                      | 0.998                                        |       |
| n <sub>He-Ne</sub>                                            | 632.8          | 1.763830                             |                                             |         |                           |                                  | 950                                   | 0.999                      | 0.998                                        |       |
| n <sub>D</sub>                                                | 589.29         | 1.766951                             |                                             |         |                           |                                  | 900                                   | 0.999                      | 0.998                                        |       |
| n <sub>d</sub>                                                | 587.56         | 1.767090                             | 着色度    Color Code                           |         |                           |                                  | 850                                   | 0.999                      | 0.998                                        |       |
| n <sub>e</sub>                                                | 546.07         | 1.770803                             | λ <sub>80</sub> /λ <sub>5</sub>             |         | 375/285                   |                                  | 800                                   | 0.998                      | 0.997                                        |       |
| n <sub>F</sub>                                                | 486.13         | 1.777978                             | λ <sub>70</sub> /λ <sub>5</sub>             |         |                           |                                  | 700                                   | 0.998                      | 0.997                                        |       |
| n <sub>F'</sub>                                               | 479.99         | 1.778877                             |                                             |         |                           |                                  | 650                                   | 0.998                      | 0.996                                        |       |
| n <sub>g</sub>                                                | 435.83         | 1.786592                             |                                             |         |                           |                                  | 600                                   | 0.998                      | 0.996                                        |       |
| n <sub>h</sub>                                                | 404.66         | 1.793805                             |                                             |         |                           |                                  | 550                                   | 0.998                      | 0.996                                        |       |
| n <sub>i</sub>                                                | 365.01         | 1.806235                             | 热性质    Thermal Properties                   |         |                           |                                  | 500                                   | 0.996                      | 0.993                                        |       |
| n <sub>313.18</sub>                                           | 313.18         | 1.832069                             | T <sub>g</sub> (°C)                         |         |                           | 610                              | 480                                   | 0.995                      | 0.990                                        |       |
| n <sub>302.15</sub>                                           | 302.15         | 1.839880                             | T <sub>s</sub> (°C)                         |         |                           | 644                              | 460                                   | 0.993                      | 0.987                                        |       |
|                                                               |                |                                      | T <sub>10</sub> <sup>14.5</sup> (°C)        |         |                           | 566                              | 440                                   | 0.992                      | 0.984                                        |       |
|                                                               |                |                                      | T <sub>10</sub> <sup>13</sup> (°C)          |         |                           | 596                              | 420                                   | 0.989                      | 0.979                                        |       |
| 色散公式常数    Constants of Dispersion Formula                     |                |                                      | T <sub>10</sub> <sup>7.6</sup> (°C)         |         |                           | 692                              | 400                                   | 0.984                      | 0.969                                        |       |
| K <sub>1</sub>                                                | 1.22950343E+00 |                                      | α <sub>30/70℃</sub> (10 <sup>-7</sup> /K)   |         |                           | 57                               | 390                                   | 0.979                      | 0.959                                        |       |
| L <sub>1</sub>                                                | 8.73071190E+01 |                                      | α <sub>100/300℃</sub> (10 <sup>-7</sup> /K) |         |                           | 74                               | 380                                   | 0.971                      | 0.942                                        |       |
| K <sub>2</sub>                                                | 6.41767823E-01 |                                      | λ[W/(m·K)]                                  |         |                           |                                  | 370                                   | 0.954                      | 0.911                                        |       |
| L <sub>2</sub>                                                | 2.37652160E-02 |                                      |                                             |         |                           |                                  | 360                                   | 0.927                      | 0.860                                        |       |
| K <sub>3</sub>                                                | 1.41136391E+00 |                                      |                                             |         |                           |                                  | 350                                   | 0.890                      | 0.790                                        |       |
| L <sub>3</sub>                                                | 6.45932700E-03 |                                      | 化学性质    Chemical Properties                 |         |                           |                                  | 340                                   | 0.830                      | 0.690                                        |       |
|                                                               |                |                                      |                                             |         |                           | Grade                            | 330                                   | 0.750                      | 0.560                                        |       |
| 折射率温度系数常数    Constants of dn/dt                               |                |                                      | D <sub>W</sub>                              |         |                           | 1                                | 320                                   | 0.650                      | 0.420                                        |       |
| D <sub>0</sub>                                                | 4.01E-06       |                                      | D <sub>A</sub>                              |         |                           | 3                                | 310                                   | 0.480                      | 0.230                                        |       |
| D <sub>1</sub>                                                | 1.55E-08       |                                      | CR                                          |         |                           | 1                                | 300                                   | 0.400                      | 0.160                                        |       |
| D <sub>2</sub>                                                | -3.41E-11      |                                      | RC(S)                                       |         |                           | 1                                | 290                                   | 0.260                      | 0.070                                        |       |
| E <sub>0</sub>                                                | 5.74E-07       |                                      | RA(S)                                       |         |                           | 3                                | 280                                   |                            |                                              |       |
| E <sub>1</sub>                                                | 4.46E-10       |                                      |                                             |         |                           |                                  |                                       |                            |                                              |       |
| λ <sub>TK</sub> (μm)                                          | 0.215          |                                      |                                             |         |                           |                                  |                                       |                            |                                              |       |
|                                                               |                |                                      |                                             |         |                           |                                  |                                       |                            |                                              |       |
| 折 射 率 温 度 系 数    Temperature Coefficients of Refractive Index |                |                                      |                                             |         |                           | 机 械 性 质    Mechanical Properties |                                       |                            |                                              |       |
| 温度范围 (°C)<br>Range of Temperature                             |                | dn/dt relative(10 <sup>-6</sup> /°C) |                                             |         |                           |                                  | H <sub>K</sub> (10 <sup>7</sup> Pa)   |                            | 756                                          |       |
|                                                               |                | t                                    | C'                                          | d       | e                         | F'                               | g                                     | F <sub>A</sub>             |                                              | 104   |
| -60~-40                                                       |                | 3.8                                  | 4.6                                         | 4.7     | 5.1                       | 5.5                              | 5.8                                   | E (10 <sup>7</sup> Pa)     |                                              | 12276 |
| -40~-20                                                       |                | 3.8                                  | 4.6                                         | 4.8     | 5.3                       | 5.7                              | 6.1                                   | G (10 <sup>7</sup> Pa)     |                                              | 4751  |
| -20~0                                                         |                | 4.1                                  | 4.7                                         | 4.9     | 5.0                       | 5.8                              | 6.2                                   | μ                          |                                              | 0.292 |
| 0~20                                                          |                | 4.2                                  | 5.0                                         | 5.1     | 5.3                       | 5.9                              | 6.4                                   | B (10 <sup>-12</sup> /Pa)  |                                              | 1.75  |
| 20~40                                                         |                | 4.4                                  | 5.1                                         | 5.3     | 5.5                       | 6.1                              | 6.7                                   |                            |                                              |       |
| 40~60                                                         |                | 4.6                                  | 5.3                                         | 5.5     | 5.7                       | 6.4                              | 6.9                                   | 其他性质    Other Properties   |                                              |       |
| 60~80                                                         |                | 4.7                                  | 5.3                                         | 5.7     | 5.9                       | 6.6                              | 7.2                                   | ρ (g/cm <sup>3</sup> )     |                                              | 4.51  |
| 80~100                                                        |                | 4.8                                  | 5.4                                         | 5.8     | 6.0                       | 6.8                              | 7.5                                   |                            |                                              |       |
| 100~120                                                       |                | 4.9                                  | 5.5                                         | 5.8     | 6.1                       | 6.8                              | 7.4                                   | 备 注    Remarks             |                                              |       |
| 120~140                                                       |                | 5.0                                  | 5.6                                         | 5.8     | 6.2                       | 6.8                              | 7.5                                   | **: 退火速率 anneal rate 25℃/h |                                              |       |