

| F7   |                |         | 636354                                       |         |                    |         | n <sub>d</sub> = 1.63636            |          | v <sub>d</sub> = 35.35 |                        | n <sub>F</sub> - n <sub>C</sub> = 0.018001   |       |
|--|----------------|---------|--|---------|--------------------|---------|-------------------------------------|----------|------------------------|------------------------|--|-------|
|  |                |         |  |         |                    |         | n <sub>e</sub> = 1.64062            |          | v <sub>e</sub> = 35.11 |                        | n <sub>F'</sub> - n <sub>C'</sub> = 0.018244 |       |
| 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 <sub>s,t</sub>                             | 0.2272  | P' <sub>s,t</sub>  | 0.2242  | λ (nm)                              | τ (5mm)  | τ (10mm)               |                        |  |       |
| n <sub>2325.42</sub>                                 | 2325.42        |         | P <sub>C,s</sub>                             | 0.4855  | P' <sub>C',s</sub> | 0.5246  | 2400                                | 0.940    | 0.883                  |                        |  |       |
| n <sub>1970.09</sub>                                 | 1970.09        |         | P <sub>d,C</sub>                             | 0.2933  | P' <sub>d,C'</sub> | 0.2439  | 2200                                | 0.954    | 0.910                  |                        |  |       |
| n <sub>1529.58</sub>                                 | 1529.58        |         | P <sub>e,d</sub>                             | 0.2367  | P' <sub>e,d</sub>  | 0.2335  | 2000                                | 0.980    | 0.960                  |                        |  |       |
| n <sub>1060.0</sub>                                  | 1060.0         |         | P <sub>g,F</sub>                             | 0.5822  | P' <sub>g,F'</sub> | 0.5158  | 1800                                | 0.988    | 0.977                  |                        |  |       |
| n <sub>t</sub>                                       | 1013.98        | 1.61825 | P <sub>i,h</sub>                             |         | P' <sub>i,h</sub>  |         | 1600                                | 0.996    | 0.993                  |                        |  |       |
| n <sub>s</sub>                                       | 852.11         | 1.62234 | 异常色散 Abnormal Dispersions                    |         |                    |         | 1400                                | 0.995    | 0.991                  |                        |  |       |
| n <sub>r</sub>                                       | 706.52         | 1.62818 |  |         |                    |         | ΔP <sub>C,t</sub>                   | -0.0001  | ΔP <sub>C,s</sub>      | 0.0002                 | 1200   | 0.999 |
| n <sub>C</sub>                                       | 656.27         | 1.63108 | ΔP <sub>F,e</sub>                            | -0.0003 | ΔP <sub>g,F</sub>  | -0.0033 | 1060                                | 0.999    | 0.998                  |                        |  |       |
| n <sub>C'</sub>                                      | 643.85         | 1.63191 | 着色度 Color Code                               |         |                    |         | 1000                                | 0.999    | 0.998                  |                        |  |       |
| n <sub>He-Ne</sub>                                   | 632.8          | 1.63269 |  |         |                    |         | λ <sub>80</sub> /λ <sub>5</sub>     | 360/330  |                        |                        | 950  | 0.999 |
| n <sub>D</sub>                                       | 589.29         | 1.63621 | λ <sub>70</sub> /λ <sub>5</sub>              |         |                    |         | 900                                 | 0.999    | 0.998                  |                        |  |       |
| n <sub>d</sub>                                       | 587.56         | 1.63636 | 热性质 Thermal Properties                       |         |                    |         | 850                                 | 0.999    | 0.998                  |                        |  |       |
| n <sub>e</sub>                                       | 546.07         | 1.64062 |  |         |                    |         | T <sub>g</sub> (°C)                 | 441      |                        |                        | 800  | 0.998 |
| n <sub>F</sub>                                       | 486.13         | 1.64908 | T <sub>s</sub> (°C)                          | 500     |                    |         | 700                                 | 0.998    | 0.997                  |                        |  |       |
| n <sub>F'</sub>                                      | 479.99         | 1.65015 | T <sub>10</sub> <sup>14.5</sup> (°C)         | 382     |                    |         | 650                                 | 0.998    | 0.996                  |                        |  |       |
| n <sub>g</sub>                                       | 435.83         | 1.65956 | T <sub>10</sub> <sup>13</sup> (°C)           | 425     |                    |         | 600                                 | 0.998    | 0.996                  |                        |  |       |
| n <sub>h</sub>                                       | 404.66         | 1.66869 | T <sub>10</sub> <sup>7.6</sup> (°C)          | 85      |                    |         | 550                                 | 0.998    | 0.996                  |                        |  |       |
| n <sub>i</sub>                                       | 365.01         | 1.68527 | α <sub>30/70°C</sub> (10 <sup>-7</sup> /K)   | 97      |                    |         | 500                                 | 0.997    | 0.995                  |                        |  |       |
| n <sub>313.18</sub>                                  | 313.18         |         | α <sub>100/300°C</sub> (10 <sup>-7</sup> /K) |         |                    |         | 480                                 | 0.997    | 0.995                  |                        |  |       |
| n <sub>302.15</sub>                                  | 302.15         |         | λ[W/(m·K)]                                   |         |                    |         | 460                                 | 0.997    | 0.994                  |                        |  |       |
| 色散公式常数 Constants of Dispersion Formula               |                |         | 化学性质 Chemical Properties                     |         |                    |         | 440                                 | 0.997    | 0.994                  |                        |  |       |
|  |                |         |  |         |                    |         | Grade                               |          |                        | 420                    | 0.996  | 0.992 |
| A <sub>0</sub>                                       | 2.6027537E+00  |         | Grade  |         |                    |         | 400                                 | 0.994    | 0.988                  |                        |  |       |
| A <sub>1</sub>                                       | -8.4678903E-03 |         |  |         |                    |         | D <sub>w</sub>                      | 1        |                        | 390                    | 0.988  | 0.976 |
| A <sub>2</sub>                                       | 2.4659617E-02  |         | D <sub>A</sub>                               | 2       |                    | 380     | 0.982                               | 0.964    |                        |                        |  |       |
| A <sub>3</sub>                                       | 7.4451296E-04  |         | CR   | 1       |                    | 370     | 0.973                               | 0.946    |                        |                        |  |       |
| A <sub>4</sub>                                       | -4.8532841E-06 |         | RC(S)  | 2       |                    | 360     | 0.946                               | 0.895    |                        |                        |  |       |
| A <sub>5</sub>                                       | 4.2592011E-06  |         | RA(S)  | 2       |                    | 350     | 0.877                               | 0.769    |                        |                        |  |       |
| 折射率温度系数常数 Constants of dn/dt                         |                |         | Grade  |         |                    |         | 340                                 | 0.688    | 0.474                  |                        |  |       |
|  |                |         |  |         |                    |         | D <sub>0</sub>                      | 1.17E-06 |                        | 330                    | 0.298  | 0.089 |
| D <sub>1</sub>                                       | 2.08E-08       |         | 机械性质 Mechanical Properties                   |         |                    |         | 320                                 |          |                        |                        |  |       |
| D <sub>2</sub>                                       | -1.11E-10      |         |  |         |                    |         | H <sub>k</sub> (10 <sup>7</sup> Pa) | 382      |                        | 310                    |  |       |
| E <sub>0</sub>                                       | 1.16E-06       |         | F <sub>A</sub>                               | 97      |                    | 300     |                                     |          |                        |                        |  |       |
| E <sub>1</sub>                                       | 2.78E-10       |         | E (10 <sup>7</sup> Pa)                       | 5744    |                    | 290     |                                     |          |                        |                        |  |       |
| λ <sub>TK</sub> (μm)                                 | 0.217          |         | G (10 <sup>7</sup> Pa)                       | 2340    |                    | 280     |                                     |          |                        |                        |  |       |
| 折射率温度系数 Temperature Coefficients of Refractive Index |                |         | dn/dt relative(10 <sup>-6</sup> /°C)         |         |                    |         | μ                                   | 0.227    |                        |                        |  |       |
|  |                |         |  |         |                    |         | B (10 <sup>-12</sup> /Pa)           | 1.74     |                        |                        |  |       |
| 温度范围 (°C)  |                |         | t  | C'      | d                  | e       | F'                                  | g        |                        |                        |  |       |
| Range of Temperature                                 |                |         |  |         |                    |         |                                     |          |                        | 其他性质 Other Properties  |  |       |
| -60~-40  |                |         |  |         |                    |         |                                     |          |                        | ρ (g/cm <sup>3</sup> ) | 3.73   |       |
| -40~-20  | 2.1            | 2.8     | 3.1  | 3.7     | 4.2                | 4.7     |                                     |          |                        |                        |  |       |
| -20~0  | 2.2            | 3.3     | 3.8  | 4.0     | 5.0                | 6.5     |                                     |          |                        |                        |  |       |
| 0~20   | 2.2            | 3.7     | 4.0  | 4.5     | 5.3                | 6.3     |                                     |          |                        |                        |  |       |
| 20~40  | 2.7            | 3.7     | 4.2  | 4.4     | 5.5                | 6.3     |                                     |          |                        |                        |  |       |
| 40~60  | 3.0            | 3.9     | 4.3  | 4.6     | 5.7                | 7.0     |                                     |          |                        |                        |  |       |
| 60~80  | 3.4            | 4.0     | 4.6  | 5.1     | 5.9                | 7.2     |                                     |          |                        |                        |  |       |
| 80~100   |                |         |  |         |                    |         |                                     |          |                        |                        |  |       |
| 100~120  |                |         |  |         |                    |         |                                     |          |                        |                        |  |       |
| 120~140  |                |         |  |         |                    |         |                                     |          |                        |                        |  |       |
| 备注 Remarks   |                |         |  |         |                    |         |                                     |          |                        |                        |  |       |