

## N-SF11 785257.322

$n_d = 1.78472$

$v_d = 25.68$

$n_F - n_C = 0.030558$

$n_e = 1.79192$

$v_e = 25.47$

$n_F - n_C = 0.031088$

### Refractive Indices

|              | $\lambda$ [nm] |         |
|--------------|----------------|---------|
| $n_{2325.4}$ | 2325.4         | 1.72937 |
| $n_{1970.1}$ | 1970.1         | 1.73600 |
| $n_{1529.6}$ | 1529.6         | 1.74377 |
| $n_{1060.0}$ | 1060.0         | 1.75401 |
| $n_t$        | 1014.0         | 1.75542 |
| $n_s$        | 852.1          | 1.76182 |
| $n_r$        | 706.5          | 1.77119 |
| $n_C$        | 656.3          | 1.77596 |
| $n_{C'}$     | 643.8          | 1.77732 |
| $n_{632.8}$  | 632.8          | 1.77860 |
| $n_D$        | 589.3          | 1.78446 |
| $n_d$        | 587.6          | 1.78472 |
| $n_e$        | 546.1          | 1.79192 |
| $n_F$        | 486.1          | 1.80651 |
| $n_{F'}$     | 480.0          | 1.80841 |
| $n_g$        | 435.8          | 1.82533 |
| $n_h$        | 404.7          | 1.84235 |
| $n_i$        | 365.0          |         |
| $n_{334.1}$  | 334.1          |         |
| $n_{312.6}$  | 312.6          |         |
| $n_{296.7}$  | 296.7          |         |
| $n_{280.4}$  | 280.4          |         |
| $n_{248.3}$  | 248.3          |         |

### Constants of Dispersion Formula

|       |              |
|-------|--------------|
| $B_1$ | 1.737596950  |
| $B_2$ | 0.313747346  |
| $B_3$ | 1.898781010  |
| $C_1$ | 0.013188707  |
| $C_2$ | 0.0623068142 |
| $C_3$ | 155.23629000 |

### Constants of Formula for $dn/dT$

|                                  |           |
|----------------------------------|-----------|
| $D_0$                            | -3.56E-06 |
| $D_1$                            | 9.20E-09  |
| $D_2$                            | -2.10E-11 |
| $E_0$                            | 9.65E-07  |
| $E_1$                            | 1.44E-09  |
| $\lambda_{TK}$ [ $\mu\text{m}$ ] | 0.294     |

### Temperature Coefficients of the Refractive Index

| [°C]    | $\Delta n_{rel}/\Delta T$ [ $10^{-6}/K$ ] |     |     | $\Delta n_{abs}/\Delta T$ [ $10^{-6}/K$ ] |      |     |
|---------|---|-----|-----|---|------|-----|
|         | 1060.0                                    | e   | g   | 1060.0                                    | e    | g   |
| -40/-20 | 0.1                                       | 2.0 | 4.6 | -2.3                                      | -0.5 | 2.1 |
| +20/+40 | 0.1                                       | 2.4 | 5.6 | -1.4                                      | 0.8  | 4.0 |
| +60/+80 | 0.2                                       | 2.7 | 6.3 | -1.0                                      | 1.5  | 5.1 |

### Internal Transmittance $\tau_i$

| $\lambda$ [nm] | $\tau_i$ [10mm] | $\tau_i$ [25mm] |
|----------------|-----------------|-----------------|
| 2500           | 0.830           | 0.620           |
| 2325           | 0.870           | 0.700           |
| 1970           | 0.965           | 0.920           |
| 1530           | 0.994           | 0.985           |
| 1060           | 0.999           | 0.998           |
| 700            | 0.994           | 0.985           |
| 660            | 0.992           | 0.981           |
| 620            | 0.992           | 0.981           |
| 580            | 0.994           | 0.984           |
| 546            | 0.991           | 0.978           |
| 500            | 0.981           | 0.953           |
| 460            | 0.967           | 0.920           |
| 436            | 0.950           | 0.870           |
| 420            | 0.920           | 0.810           |
| 405            | 0.850           | 0.670           |
| 400            | 0.820           | 0.600           |
| 390            | 0.690           | 0.390           |
| 380            | 0.430           | 0.120           |
| 370            | 0.080           | 0.000           |
| 365            | 0.000           |                 |
| 350            |                 |                 |
| 334            |                 |                 |
| 320            |                 |                 |
| 310            |                 |                 |
| 300            |                 |                 |
| 290            |                 |                 |
| 280            |                 |                 |
| 270            |                 |                 |
| 260            |                 |                 |
| 250            |                 |                 |

### Color Code

$\lambda_{80} / \lambda_5$  44/37

### Remarks

### Relative Partial Dispersion P

|           |        |
|-----------|--------|
| $P_{s,t}$ | 0.2095 |
| $P_{C,s}$ | 0.4625 |
| $P_{d,C}$ | 0.2868 |
| $P_{e,d}$ | 0.2355 |
| $P_{g,F}$ | 0.6156 |
| $P_{i,h}$ |        |

### Relative Partial Dispersion P'

|             |        |
|-------------|--------|
| $P'_{s,t}$  | 0.2059 |
| $P'_{C,s}$  | 0.4984 |
| $P'_{d,C'}$ | 0.2381 |
| $P'_{e,d}$  | 0.2315 |
| $P'_{g,F'}$ | 0.5442 |
| $P'_{i,h}$  |        |

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

|                  |         |
|------------------|---------|
| $\Delta P_{C,t}$ | 0.0052  |
| $\Delta P_{C,s}$ | -0.0003 |
| $\Delta P_{F,e}$ | 0.0027  |
| $\Delta P_{g,F}$ | 0.0150  |
| $\Delta P_{i,g}$ |         |

### Chemical Properties

|    |   |
|----|---|
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |

### Other Properties

|   |       |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]  | 8.5   |
| $\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ] | 9.9   |
| $T_g$ [°C]  | 592   |
| $T_{10}^{13}$ [°C]                                | 590   |
| $T_{10}^{7.6}$ [°C]                               | 688   |
| $c_p$ [J/(g·K)]                                   | 0.710 |
| $\lambda$ [W/(m·K)]                               | 0.950 |
| $\rho$ [g/cm <sup>3</sup> ]                       | 3.22  |
| $E$ [ $10^3$ N/mm <sup>2</sup> ]                  | 92    |
| $\mu$   | 0.257 |
| $K$ [ $10^{-6}$ mm <sup>2</sup> /N]               | 2.94  |
| $HK_{0.1/20}$                                     | 615   |
| HG  | 4     |