

Transmittance (T)

units: %

|     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| λnm | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  | 310  | 320  | 330  | 340  | 350  | 360  | 370  | 380  | 390  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| λnm | 400  | 410  | 420  | 430  | 440  | 450  | 460  | 470  | 480  | 490  | 500  | 510  | 520  | 530  | 540  | 550  | 560  | 570  | 580  | 590  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| λnm | 600  | 610  | 620  | 630  | 640  | 650  | 660  | 670  | 680  | 690  | 700  | 710  | 720  | 730  | 740  | 750  | 760  | 770  | 780  | 790  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 5.0  | 21.1 | 43.8 | 61.4 | 70.6 | 75.1 | 77.0 | 77.0 | 77.1 |
| λnm | 800  | 810  | 820  | 830  | 840  | 850  | 860  | 870  | 880  | 890  | 900  | 910  | 920  | 930  | 940  | 950  | 960  | 970  | 980  | 990  |
| T   | 79.2 | 81.5 | 83.0 | 83.5 | 83.4 | 82.8 | 82.0 | 81.0 | 80.0 | 78.8 | 77.6 | 76.1 | 74.6 | 72.8 | 70.8 | 68.8 | 66.5 | 63.9 | 60.9 | 57.8 |
| λnm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1120 | 1140 | 1160 | 1180 | 1200 |      |      |      |      |
| T   | 54.3 | 50.4 | 46.3 | 42.0 | 37.5 | 32.9 | 28.3 | 24.0 | 20.0 | 16.3 | 12.9 | 7.6  | 4.1  | 2.1  | 1.0  | 0.5  |      |      |      |      |

Refractive Index/Absorption coefficient/Reflection coefficient

|     |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|
| λnm | 400   | 500   | 600   | 700   | 800   | 900   | 1000  |
| n   | 1.553 | 1.542 | 1.536 | 1.532 | 1.530 | 1.529 | 1.527 |
| P   | 0.910 | 0.913 | 0.915 | 0.915 | 0.916 | 0.916 | 0.917 |

Classes of Bubbles and Inclusions

|              |
|--------------|
| Bubble Class |
| 3            |

Color Specification

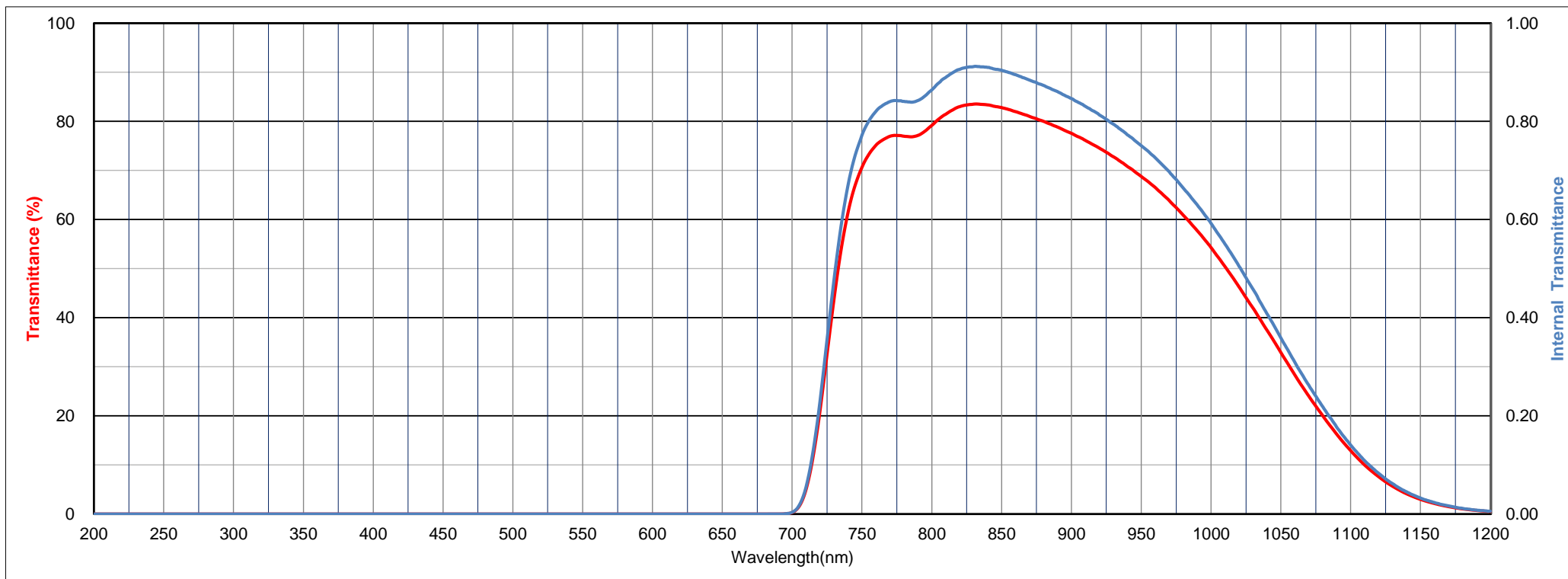
|     |   |   |   |                |                |
|-----|---|---|---|----------------|----------------|
|     | x | y | Y | λ <sub>d</sub> | P <sub>e</sub> |
| A   | - | - | - | -              | -              |
| C   | - | - | - | -              | -              |
| D65 | - | - | - | -              | -              |

Properties

| Chemical       |                | Thermal        |                |             |              | Mechanical     |                | Others |
|----------------|----------------|----------------|----------------|-------------|--------------|----------------|----------------|--------|
| D <sub>w</sub> | D <sub>A</sub> | T <sub>g</sub> | T <sub>s</sub> | α<br>-30/70 | α<br>100/300 | H <sub>K</sub> | F <sub>A</sub> | d      |
| 1              | 1              | 545            | 605            | -           | 101          | 510            | 140            | 2.75   |

Tolerance of Transmittance (T)

|                        |                        |                         |
|------------------------|------------------------|-------------------------|
| Transmittance at 830nm | Transmittance at 700nm | Transmittance at 1200nm |
| T830(%)                | T700(%)                | T1200(%)                |
| 82±5                   | <5                     | <1                      |



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|     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| λnm | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  | 310  | 320  | 330  | 340  | 350  | 360  | 370  | 380  | 390  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| λnm | 400  | 410  | 420  | 430  | 440  | 450  | 460  | 470  | 480  | 490  | 500  | 510  | 520  | 530  | 540  | 550  | 560  | 570  | 580  | 590  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| λnm | 600  | 610  | 620  | 630  | 640  | 650  | 660  | 670  | 680  | 690  | 700  | 710  | 720  | 730  | 740  | 750  | 760  | 770  | 780  | 790  |
| T   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 5.0  | 21.1 | 43.8 | 61.4 | 70.6 | 75.1 | 77.0 | 77.0 | 77.1 |
| λnm | 800  | 810  | 820  | 830  | 840  | 850  | 860  | 870  | 880  | 890  | 900  | 910  | 920  | 930  | 940  | 950  | 960  | 970  | 980  | 990  |
| T   | 79.2 | 81.5 | 83.0 | 83.5 | 83.4 | 82.8 | 82.0 | 81.0 | 80.0 | 78.8 | 77.6 | 76.1 | 74.6 | 72.8 | 70.8 | 68.8 | 66.5 | 63.9 | 60.9 | 57.8 |
| λnm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1160 | 1170 | 1180 | 1190 |
| T   | 54.3 | 50.4 | 46.3 | 42.0 | 37.5 | 32.9 | 28.3 | 24.0 | 20.0 | 16.3 | 12.9 | 10.0 | 7.6  | 5.7  | 4.1  | 3.0  | 2.1  | 1.5  | 1.0  | 0.7  |
| λnm | 1200 | 1210 | 1220 | 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | 1300 | 1310 | 1320 | 1330 | 1340 | 1350 | 1360 | 1370 | 1380 | 1390 |
| T   | 0.5  | 0.4  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.3  |
| λnm | 1400 | 1410 | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 | 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | 1540 | 1550 | 1560 | 1570 | 1580 | 1590 |
| T   | 0.3  | 0.3  | 0.4  | 0.4  | 0.5  | 0.5  | 0.6  | 0.6  | 0.7  | 0.8  | 0.8  | 0.9  | 1.0  | 1.0  | 1.1  | 1.1  | 1.1  | 1.1  | 1.2  | 1.2  |
| λnm | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | 1720 | 1730 | 1740 | 1750 | 1760 | 1770 | 1780 | 1790 |
| T   | 1.2  | 1.3  | 1.3  | 1.2  | 1.2  | 1.2  | 1.1  | 1.1  | 1.1  | 1.0  | 1.0  | 1.0  | 1.0  | 0.9  | 0.9  | 0.8  | 0.8  | 0.7  | 0.7  | 0.7  |
| λnm | 1800 | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 | 1870 | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 1970 | 1980 | 1990 |
| T   | 0.6  | 0.6  | 0.6  | 0.5  | 0.5  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.1  | 0.5  | 0.7  | 0.8  | 1.0  | 1.2  | 1.5  | 1.7  | 1.9  | 2.2  |
| λnm | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 | 2850 | 2900 | 2950 |
| T   | 2.5  | 3.9  | 5.8  | 8.0  | 10.8 | 14.1 | 17.8 | 21.4 | 24.4 | 26.5 | 27.9 | 28.6 | 28.8 | 28.6 | 27.8 | 17.0 | 11.2 | 10.5 | 10.3 | 10.2 |
| λnm | 3000 | 3050 | 3100 | 3150 | 3200 | 3250 | 3300 | 3350 | 3400 | 3450 | 3500 | 3550 | 3600 | 3650 | 3700 | 3750 | 3800 | 3850 | 3900 | 3950 |
| T   | 10.1 | 9.9  | 9.7  | 9.4  | 9.1  | 8.9  | 8.6  | 8.4  | 8.0  | 7.6  | 7.2  | 6.9  | 7.1  | 7.3  | 7.4  | 7.8  | 8.8  | 10.7 | 11.4 | 11.2 |
| λnm | 4000 | 4050 | 4100 | 4150 | 4200 | 4250 | 4300 | 4350 | 4400 | 4450 | 4500 | 4550 | 4600 | 4650 | 4700 | 4750 | 4800 | 4850 | 4900 | 4950 |
| T   | 10.6 | 10.2 | 10.1 | 10.1 | 9.6  | 8.5  | 7.1  | 5.4  | 3.8  | 2.3  | 1.2  | 0.5  | 0.2  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| λnm | 5000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| T   | 0.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

