



HOYA CORPORATION OPTICS SECTION

Thickness 2.50 mm

E-V10

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  | 0.1  | 1.0  | 7.7  | 74.2 | 83.2 | 86.8 |
| λnm | 400  | 410  | 420  | 430  | 440  | 450  | 460  | 470  | 480  | 490  | 500  | 510  | 520  | 530  | 540  | 550  | 560  | 570  | 580  | 590  |
| T   | 88.1 | 88.0 | 86.0 | 51.6 | 42.0 | 52.2 | 53.9 | 43.2 | 38.4 | 73.4 | 70.8 | 44.5 | 46.4 | 19.8 | 64.7 | 83.3 | 78.5 | 1.5  | 1.6  | 0.9  |
| λnm | 600  | 610  | 620  | 630  | 640  | 650  | 660  | 670  | 680  | 690  | 700  | 710  | 720  | 730  | 740  | 750  | 760  | 770  | 780  | 790  |
| T   | 20.9 | 51.2 | 85.5 | 83.6 | 88.4 | 89.7 | 89.2 | 83.3 | 74.1 | 76.2 | 87.5 | 88.6 | 85.2 | 58.3 | 3.6  | 6.7  | 39.5 | 64.3 | 64.7 | 28.3 |
| λnm | 800  | 810  | 820  | 830  | 840  | 850  | 860  | 870  | 880  | 890  | 900  | 910  | 920  | 930  | 940  | 950  | 960  | 970  | 980  | 990  |
| T   | 6.7  | 2.2  | 31.9 | 61.5 | 81.5 | 83.6 | 68.7 | 45.7 | 26.3 | 51.8 | 71.1 | 82.0 | 86.3 | 89.7 | 90.6 | 90.5 | 90.2 | 89.9 | 89.6 | 88.8 |
| λnm | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1120 | 1140 | 1160 | 1180 | 1200 |      |      |      |      |
| T   | 88.8 | 89.2 | 89.8 | 90.4 | 90.7 | 91.1 | 91.4 | 91.5 | 91.6 | 91.7 | 91.8 | 91.8 | 91.9 | 91.9 | 91.9 | 91.9 |      |      |      |      |

Refractive Index/Absorption coefficient/Reflection coefficient

|     |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|
| λnm | 400   | 500   | 600   | 700   | 800   | 900   | 1000  |
| n   | 1.583 | 1.571 | 1.565 | 1.561 | 1.558 | 1.556 | 1.554 |
| P   | 0.903 | 0.906 | 0.908 | 0.909 | 0.909 | 0.910 | 0.910 |

Classes of Bubbles and Inclusions

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

Color Specification

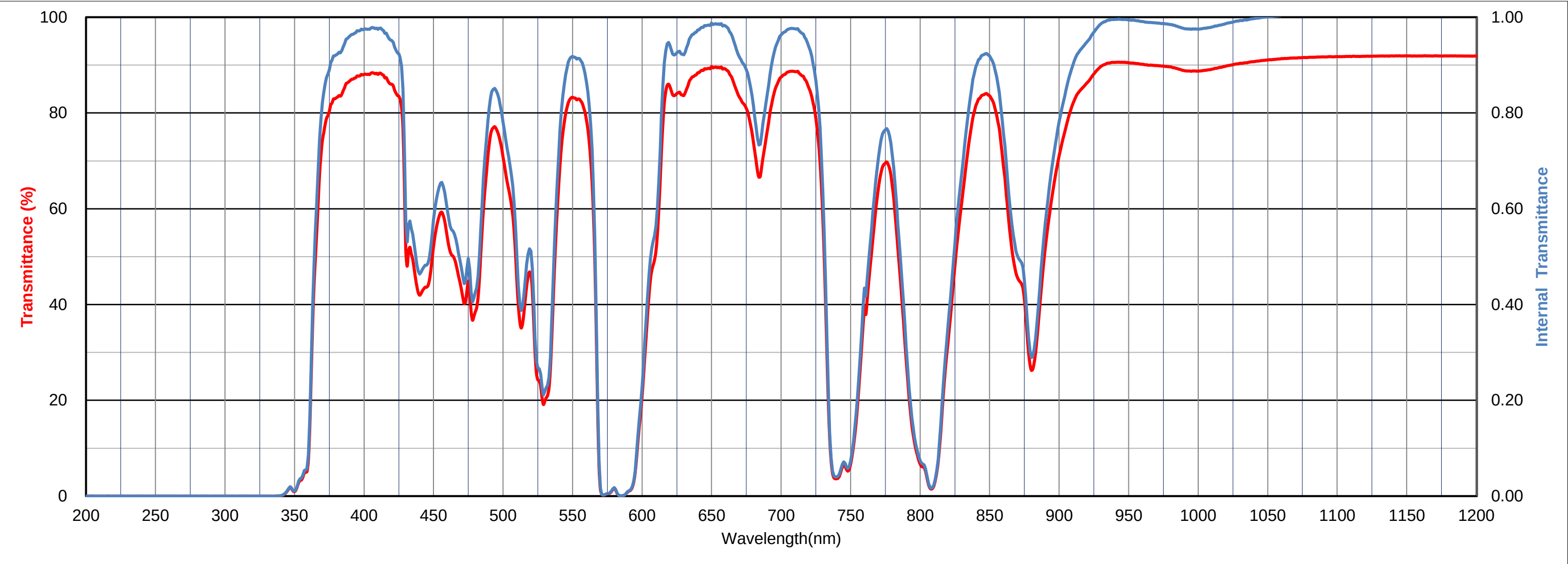
|     |       |       |    |                |                |
|-----|-------|-------|----|----------------|----------------|
|     | x     | y     | Y  | λ <sub>d</sub> | P <sub>e</sub> |
| A   | 0.458 | 0.383 | 46 | -555           | 11             |
| C   | 0.299 | 0.296 | 46 | 453            | 7              |
| D65 | 0.302 | 0.307 | 46 | 448            | 7              |

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      |
| 3              | 1              | 586            | 631            | -           | 95           | 535            | 160            | 3.05   |

Tolerance of Transmittance (T)

|                        |                        |
|------------------------|------------------------|
| Transmittance at 550nm | Transmittance at 586nm |
| T550(%)                | T586(%)                |
| >80                    | <2                     |



All data is mean values of various melts.

The content of this catalog is accurate as of January ,2025