

# Green Filter

G-530

Catalog Thickness t = 2.5 mm

Reflection Factor P<sub>r</sub> = 0.904

Diagram-2

Transmittance (T) & Internal Transmittance (τ) units: (%)

| λ <sub>nm</sub> | 200                | 210 | 220 | 230 | 240 | 250 | 260  | 270  | 280  | 290  | 300   | 310   | 320   | 330   | 340   | 350   | 360   | 370   | 380                | 390                | 400   | 410   | 420   | 430   | 440   |  |
|-----------------|--------------------|-----|-----|-----|-----|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|--------------------|-------|-------|-------|-------|-------|--|
| T               |                    |     |     |     |     |     |      |      |      |      |       |       |       |       |       |       |       |       |                    |                    |       |       |       |       |       |  |
| τ               |                    |     |     |     |     |     |      |      |      |      |       |       |       |       |       |       |       |       |                    |                    |       |       |       |       |       |  |
| λ <sub>nm</sub> | 450                | 460 | 470 | 480 | 490 | 500 | 510  | 520  | 530  | 540  | 550   | 560   | 570   | 580   | 590   | 600   | 610   | 620   | 630                | 640                | 650   | 660   | 670   | 680   | 690   |  |
| T               | 5·10 <sup>-3</sup> | .06 | .39 | 1.2 | 3.6 | 7.6 | 13.2 | 17.4 | 18.5 | 15.7 | 11.2  | 6.6   | 3.4   | 1.5   | .55   | .19   | .06   | .02   | 5·10 <sup>-3</sup> | 2·10 <sup>-3</sup> |       |       |       |       |       |  |
| τ               | 6·10 <sup>-3</sup> | .07 | .43 | 1.3 | 4.0 | 8.4 | 14.6 | 19.2 | 20.5 | 17.4 | 12.4  | 7.3   | 3.8   | 1.7   | .61   | .21   | .07   | .02   | 6·10 <sup>-3</sup> | 2·10 <sup>-3</sup> |       |       |       |       |       |  |
| λ <sub>nm</sub> | 700                | 710 | 720 | 730 | 740 | 750 | 800  | 850  | 900  | 950  | 1,000 | 1,100 | 1,200 | 1,300 | 1,400 | 1,500 | 1,600 | 1,700 | 1,800              | 1,900              | 2,000 | 2,100 | 2,200 | 2,300 | 2,400 |  |
| T               |                    |     |     |     |     |     |      |      |      |      |       | .8    | 1.0   | 3.8   | 8.0   | 15.8  | 23.5  | 32.4  | 41.2               | 48.5               | 55.8  | 60.6  | 65.3  | 68.6  | 71.9  |  |
| τ               |                    |     |     |     |     |     |      |      |      |      |       | .9    | 1.1   | 4.2   | 8.9   | 17.5  | 26.0  | 35.8  | 45.6               | 53.7               | 61.7  | 67.0  | 72.2  | 75.9  | 79.5  |  |

Refractive Indices

| Symbol          | i     | h     | g     | F'    | F     | e     | d     | D     | C'    | C     | r     | A'    | t       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| λ <sub>nm</sub> | 365.0 | 404.7 | 435.8 | 480.0 | 486.1 | 546.1 | 587.6 | 589.3 | 643.8 | 656.3 | 706.5 | 768.2 | 1,014.0 |
| n               |       |       |       |       |       | 1.578 |       |       |       |       |       |       |         |

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} =$$

Color Specifications

|                 | x    | y    | Y   | λ <sub>d</sub> | P <sub>e</sub> |
|-----------------|------|------|-----|----------------|----------------|
| A               | .235 | .699 | 5.9 | 534            | 81             |
| C               | .210 | .696 | 7.2 | 534            | 81             |
| D <sub>65</sub> | .205 | .702 | 7.5 | 534            | 84             |

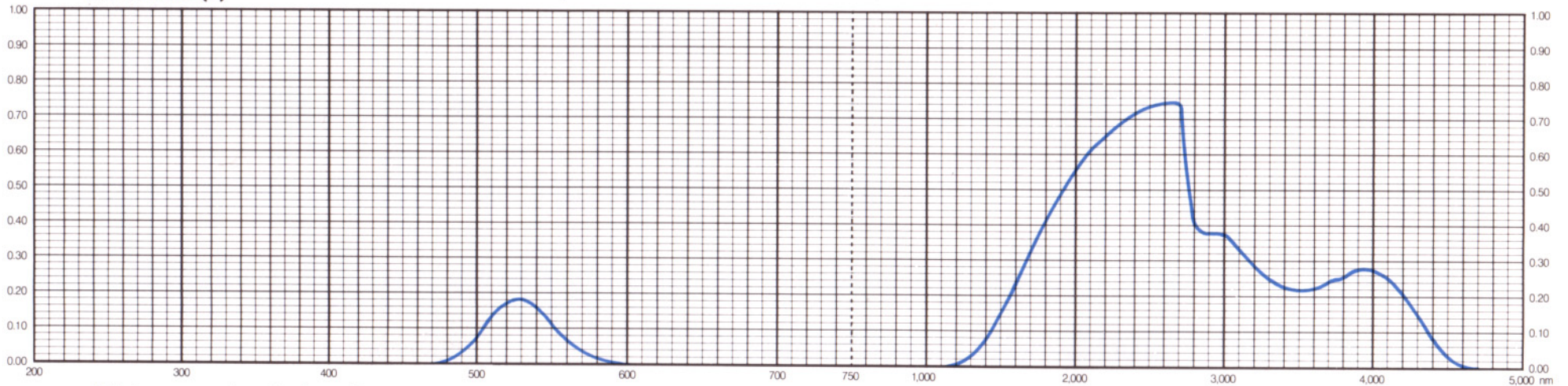
Properties

| Chemical       |                | Thermal        |                |                     |                      | Mechanical     |                | Other |
|----------------|----------------|----------------|----------------|---------------------|----------------------|----------------|----------------|-------|
| D <sub>w</sub> | D <sub>A</sub> | T <sub>g</sub> | T <sub>s</sub> | α <sub>-30/70</sub> | α <sub>100/300</sub> | H <sub>K</sub> | F <sub>A</sub> | S     |
| 1              | 1              | 450            | 495            | 94                  | 100                  | 500            | 130            | 3.12  |

Tolerances of Transmittance (T)

| Wavelength for Max. Transmittance | Maximum Transmittance | Less than 1% Wavelength at Short-wave Side | Less than 5% Wavelength at Long wave Side |
|-----------------------------------|-----------------------|--|---|
| λT <sub>max</sub> (nm)            | T <sub>max</sub> (%)  | λs1 (nm)                                   | λl5 (nm)                                  |
| 530 ± 5                           | 18 ± 3                | 470  | 580                                       |

Transmittance (T)



All data are mean values of various melts.