

Sharp Cut Filter (Orange)

0-58

Catalog Thickness t= 2.5 mm

Reflection Factor P_r=0.916

Diagram-1

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

| λ _{nm} | 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 _{nm} | 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 | | | | | | | | | | | | .10 | 6.4 | 39.1 | 69.5 | 83.5 | 88.4 | 90.2 | 90.9 | 91.4 | 91.5 | | | | | |
| τ | | | | | | | | | | | | .11 | 7.0 | 42.7 | 75.9 | 91.2 | 96.5 | 98.5 | 99.2 | 99.8 | 99.9 | | | | | |
| λ _{nm} | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| τ | | | | | | | | | | | | | | | | | | | | | | | | | | |

Refractive Indices

| Symbol | i | h | g | F' | F | e | d | D | C' | C | r | A' | t |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| λ _{nm} | 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 | | | | | | | 1.528 | 1.528 | 1.526 | 1.525 | 1.524 | 1.522 | 1.518 |

Abbe-Number

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

Color Specifications

| | x | y | Y | λ _d | P _e |
|-----------------|------|------|------|----------------|----------------|
| A | .654 | .345 | 35.7 | 607 | 100 |
| C | .644 | .356 | 24.3 | 604 | 100 |
| D ₆₅ | .644 | .356 | 23.9 | 604 | 100 |

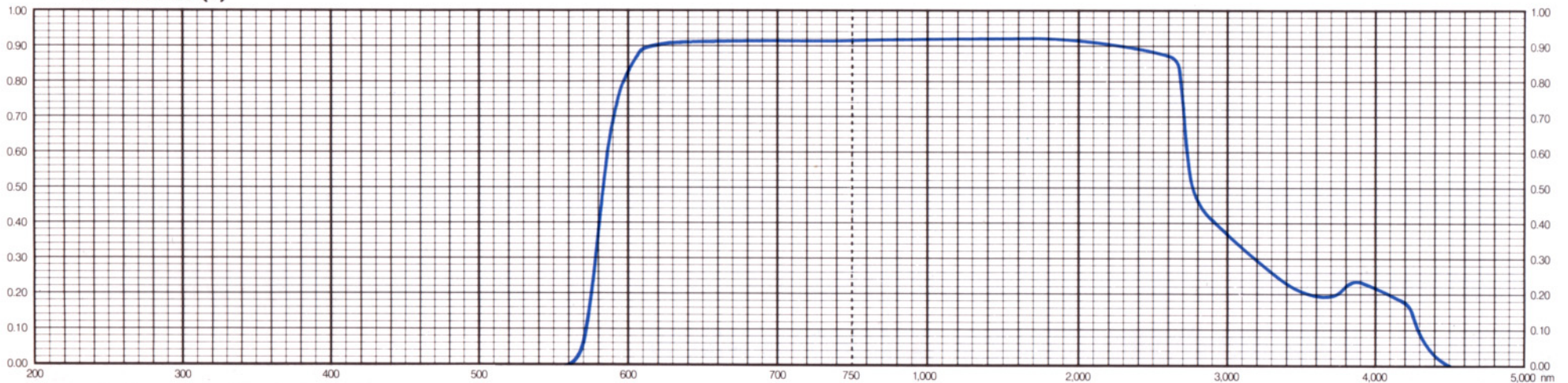
Properties

| Chemical | | Thermal | | | | Mechanical | | Other |
|----------------|----------------|----------------|----------------|---------------------|----------------------|----------------|----------------|-------|
| D _w | D _A | T _g | T _s | α _{-30/70} | α _{100/300} | H _K | F _A | S |
| 1 | 1 | 560 | 625 | 93 | 104 | 520 | 140 | 2.68 |

Tolerances of Transmittance (T)

| Transition Wavelength | Transition Interval | Average High Transmittance |
|-----------------------|---------------------|----------------------------|
| λT(nm) | Δλ(nm) | T _H (%) |
| 580 ± 5 | < 25 | > 85 |

Transmittance (T)



All data are mean values of various melts.