

ACRYLIC UV TRANSMISSION FILTERS

PRODUCT INFORMATION

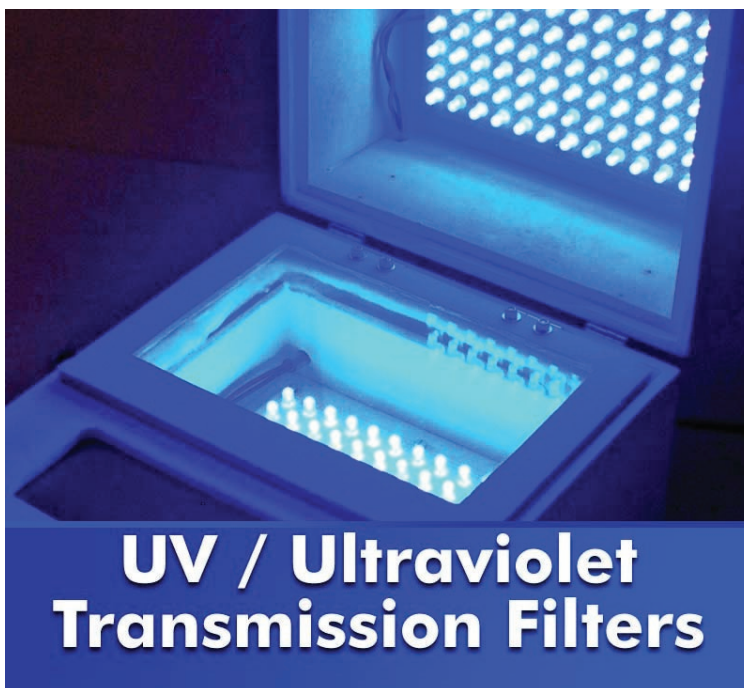
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PHILLIPS SAFETY
PRODUCTS INC.

PRODUCT INFORMATION
ACRYLIC UV TRANSMISSION FILTERS



Transmits ultra-violet rays at 260nm. UV Filters provide extremely accurate transmission specifications. Product Designation is Grade: "S-O" Clear.

APPLICATIONS – Optical disc substrates, UV-cure applications, sterilization filters

THICKNESS – 0.2, 0.3, 0.4, 0.5, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 and 5.0mm

SIZE – 400 x 550mm standard. Custom sizes are available upon request.

OPTICAL PROPERTIES – Transmission from 260nm — Transmit about 80% at 300nm — Transmit about 90% at 350nm. Total Light Transmission 93% – Haze 0.1% – Refractive Index 1.49

MACHINING / PRINTING – Available to customer specification.

SPECIFICATION

Transmit ultra-violet ray (80% at 300nm)

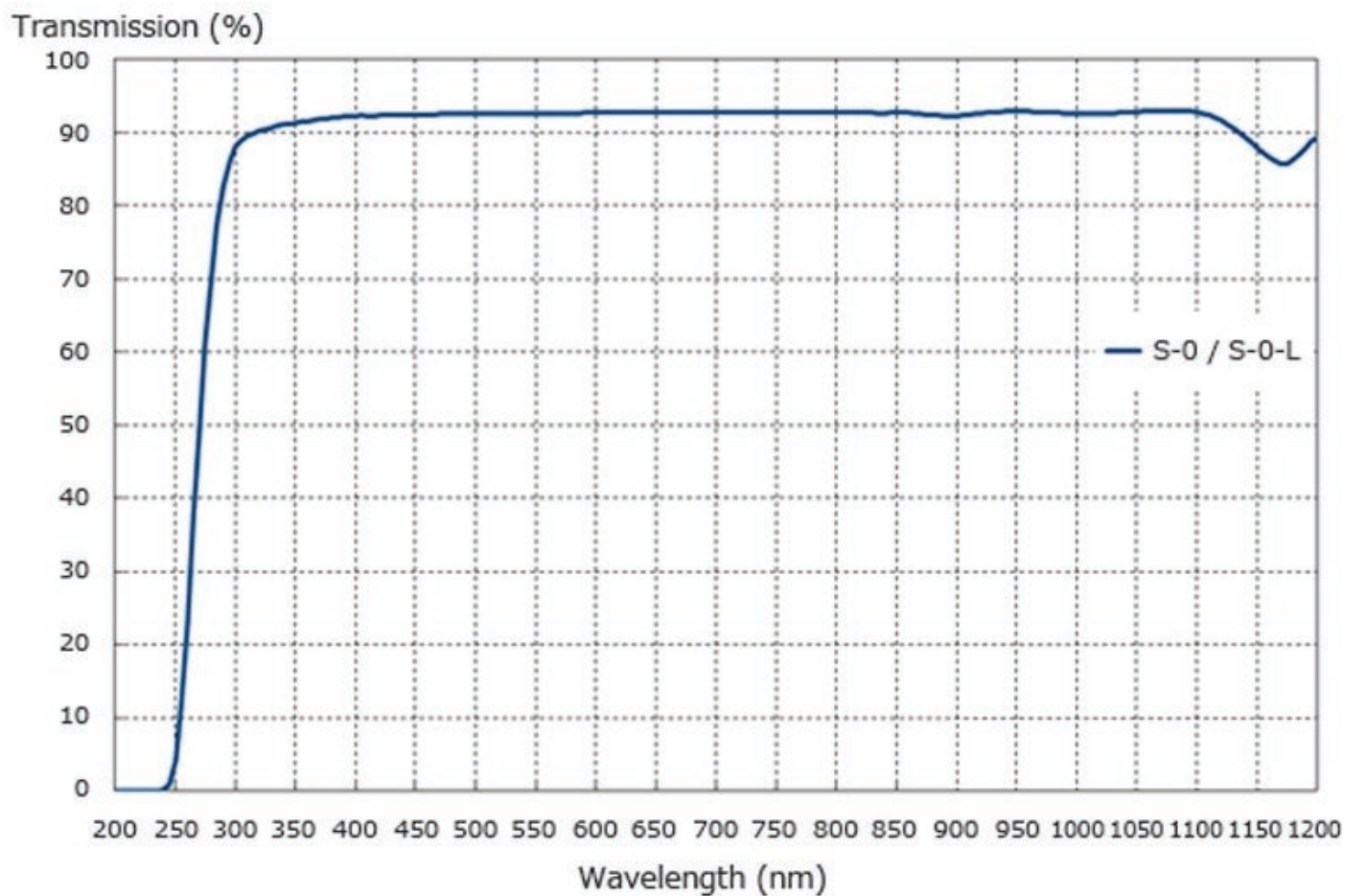
Available smooth surface or anti-glare surface

Excellent optical characteristics

Available scratch-resistant

No double refraction

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※ These are our experimental measured values in 1.0mm thick.
Value provided cannot be guaranteed in your application due to circumstances beyond our control.

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See UV Transmission Filter Properties

| PHYSICAL PROPERTIES | | | |
|--|------------------------------|----------------------|----------------------|
| PROPERTY | METHOD | UNIT | Normal Grade |
| SPECIFIC GRAVITY | ASTM D-792 | | 1.19 |
| OPTICAL | | | |
| Refractive Index | ASTM D-542 | | 1.49 |
| MECHANICAL | | | |
| Elongation | ASTM D-638 | % | 5 |
| Tensile Rupture Strength | ASTM D-638 | kg/cm2 | 750 |
| Flexural Rupture Strength | ASTM D-790 | kg/cm2 | 1200 |
| THERMAL | | | |
| Heat Distortion Temperature | ASTM D-648 | °C | 110 |
| Maximum recommended continuous temperature | | °C | 80 |
| Available with higher temperature ratings on request, 90-95°C | | | |
| Coefficient of Thermal Expansion | ASTM D-696 | cm/cm/°C | 7 x 10 ⁻⁵ |
| Specific Heat | ASTM D-638 | cal/gr°C | 0.35 |
| DURABILITY | | | |
| Heat Resistance | 80°C x 100hr | | No Change |
| Cold Resistance | -40°C x 100hr | | No Change |
| Humidity Resistance | 60°C x 90% x 100hr | | No Change |
| Thermal Cycle | -40°C <> 80°C (10 cycles) | | No Change |
| ELECTRICAL | | | |
| Surface Resistivity | | W | >10 ¹⁶ |
| CHEMICAL | | | |
| Methyl Alcohol (50%) | | | No Change |
| Ethyl Alcohol (50%) | | | No Change |
| Soap Aqua Solution | | | No Change |
| Toluene | | | Dissolved |
| Acetone | | | Dissolved |
| Benzene | | | Swollen |
| Ethylene Dichloride | | | Dissolved |
| + | | | |
| PENCIL HARDNESS | | | 2H |
| ADHESION | K-5400 | | |
| FLAMMABILITY | UL standard | >=0.8mm Thickness | 94HB |

CONTACT

Should you need any further information,
please do not hesitate to contact us.

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