

# ACRYLIC UV CUT FILTER

## PRODUCT INFORMATION

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**PHILLIPS SAFETY**  
PRODUCTS INC.

**PRODUCT INFORMATION**  
ACRYLIC UV CUT FILTER



The Acrylic UV Cut Filter protects displays from ultraviolet rays. There are five types of ultra-violet absorption filters, ranging from 370 nm ~ 480 nm. Available with smooth or non-glare surfaces. Both surfaces are available with scratch-resistant coating. High transparency – 92% Total Light Transmission.

**APPLICATIONS** – Display protectors, optical filters, instrumentation and sensors

**THICKNESS** – 0.2 up to 5.0mm

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

**MACHINING / PRINTING** – Available to customer specification.

**SPECIFICATION**

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**Excellent optical characteristics**

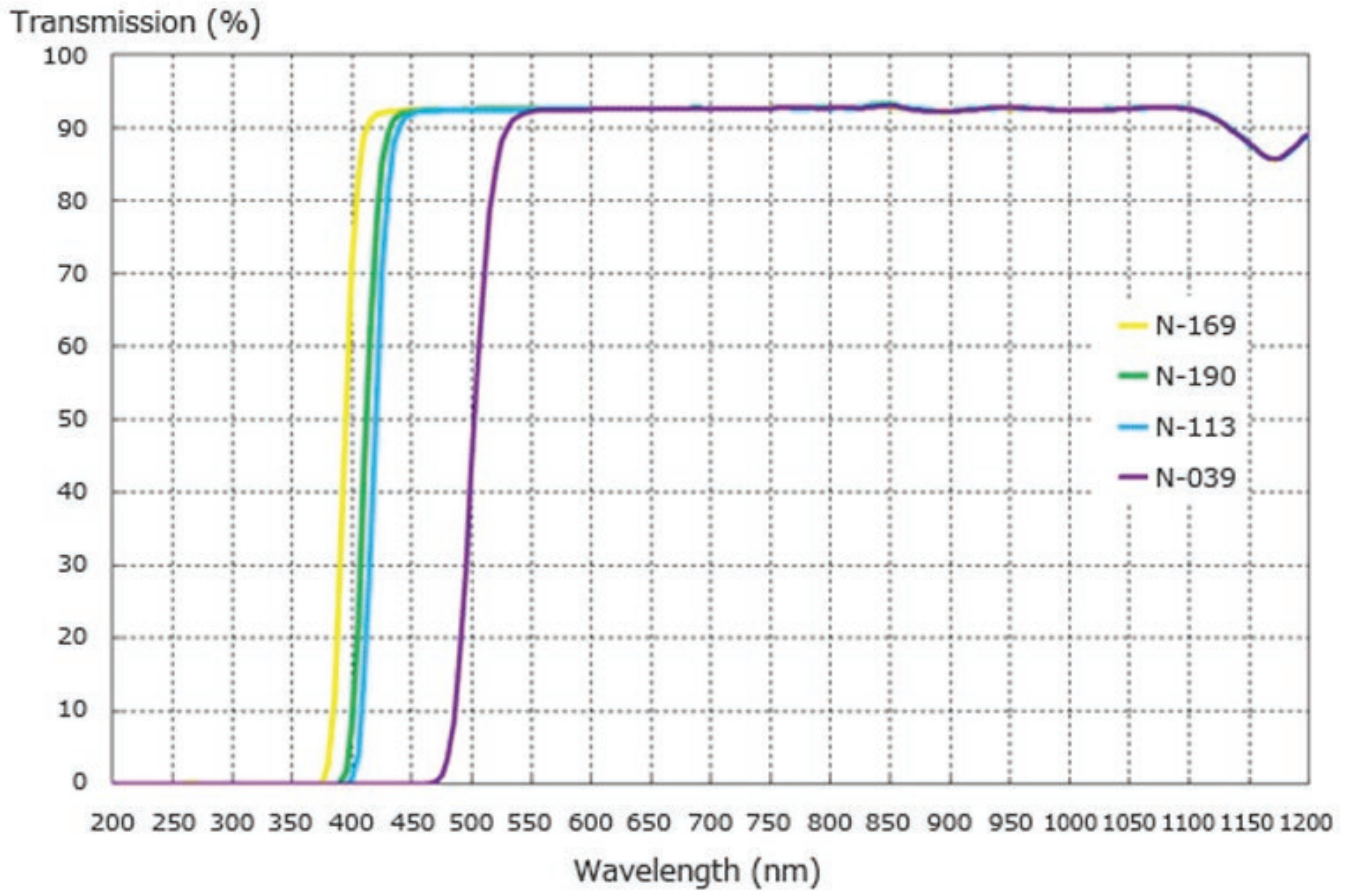
**No double refraction**

**Excellent weatherability**

**Available smooth surface or anti-glare surface**

**Scratch-resistant grades**

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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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PHYSICAL PROPERTIES				
PROPERTY	METHOD	UNIT	Normal Grade	Hard Coat Grade
<b>SPECIFIC GRAVITY</b>	ASTM D-792		1.19	1.19
OPTICAL				
Refractive Index	ASTM D-542		1.49	1.49 (1.54)
MECHANICAL				
Elongation	ASTM D-638	%	5	5
Tensile Rupture Strength	ASTM D-638	kg/cm2	750	650
Flexural Rupture Strength	ASTM D-790	kg/cm2	1200	800
THERMAL				
Heat Distortion Temperature	ASTM D-648	°C	110	110
Maximum recommended continuous temperature		°C	80	80
<b>Available with higher temperature ratings on request, 90-95°C</b>				
Coefficient of Thermal Expansion	ASTM D-696	cm/cm/°C	7 x 10 <sup>-5</sup>	7 x 10 <sup>-5</sup>
Specific Heat	ASTM D-638	cal/gr°C	0.3535	0.35
DURABILITY				
Heat Resistance	80°C x 100hr		No Change	No Change
Cold Resistance	-40°C x 100hr		No Change	No Change
Humidity Resistance	60°C x 90% x 100hr		No Change	No Change
Thermal Cycle	-40°C <-> 80°C (10 cycles)		No Change	No Change
ELECTRICAL				
Surface Resistivity		W	>10 <sup>16</sup>	>10 <sup>16</sup>
CHEMICAL				
Methyl Alcohol (50%)			No Change	No Change
Ethyl Alcohol (50%)			No Change	No Change
Soap Aqua Solution			No Change	No Change
Toluene			Dissolved	No Change
Acetone			Dissolved	No Change
Benzene			Swollen	No Change
Ethylene Dichloride			Dissolved	No Change
+				
<b>PENCIL HARDNESS</b>			2H	6~8H
<b>ADHESION</b>	K-5400			100/100
FLAMMABILITY				
	UL standard	>=0.8mm Thickness	94HB	94HB

# CONTACT

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

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