

Technical information

ACRYLITE® UV filtering (OP3)

Ultimate protection against damaging UV light

Product

ACRYLITE® UV filtering (OP3) provides the highest protection against damaging UV light in the market today. Used by professional picture framers and museums around the world, ACRYLITE® UV filtering (OP3) is a continuously manufactured acrylic with built-in protection rather than a coated surface.

Benefits

- Highest UV filtering protection
- Exceptional optical clarity
- Safe – half the weight of glass
- 10–20 times more resistant to impact
- Easier to handle and install
- More economical to ship



Standard Product Offering

ACRYLITE® UV filtering (OP3) is available in the following sizes and thicknesses:

- Size: 48x96, 51x100, and 72x96
- Thickness: .098", .118", .177"

Other sheet dimensions may be in stock or can be manufactured.

Processing

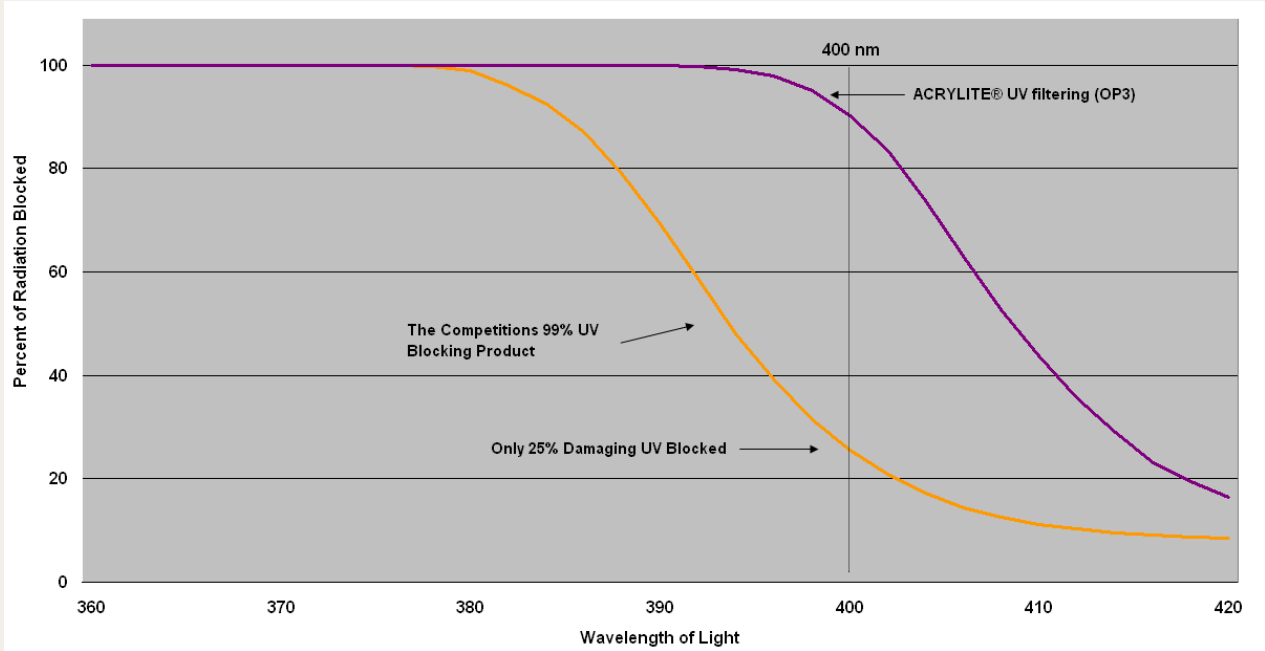
ACRYLITE® UV filtering (OP3) can be easily fabricated. The same cutting, routing, drilling, and forming techniques used with ACRYLITE® FF can be performed on ACRYLITE® UV filtering (OP3). Refer to ACRYLITE® extruded technical briefs for specific details.

Protection

Sunlight, halogen and fluorescent lights as well as oxygen and moisture in the air are all potential and real hazards to paper and other artistic mediums. Fabrics and paper become brittle, fade in color or turn yellow when exposed to harmful UV light. This damage is permanent and irreversible.

Many times, narrow UV light ranges and thicker acrylic sheet measurements are used to boost the claim of UV filtering performance. ACRYLITE® UV filtering (OP3) measures its protection against the ASTM D 4802 standard which defines UV filtering as limiting the transmission of UV radiation

through the acrylic sheet to less than 5% in the 200nm to 400nm range (i.e. blocking greater than 95% of the UV light). ACRYLITE® UV filtering (OP3) far exceeds this requirement and is the clear choice for preservation against the harsh UV elements.



Data based on 3mm thick samples for evaluation to Standard ASTM D 4802 - 10

The ACRYLITE® Advantage

In the image below, the photo on the left is framed with ACRYLITE® UV filtering (OP3) acrylic sheet and the photo on the right is framed with a competitive acrylic product claiming to be 99% UV filtering.

The same photo is now shown with a UV black light. The photo on the right fluoresces under the radiation of UV light while the photo framed with ACRYLITE® UV filtering (OP3) remains dark; indicating higher protection against UV light.

Normal Light Conditions



UV Black Light Test



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