

ACRYLITE® Gallery UV filtering (OP3) Extruded Sheet



Ultimate Protection Against Damaging UV Light

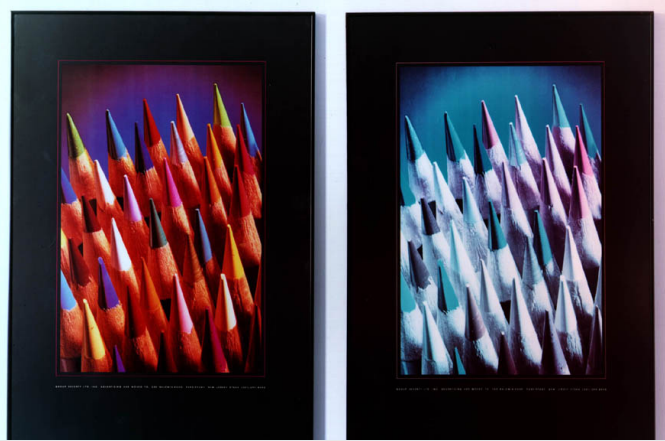
Product

Sunlight, as well as halogen and fluorescent lights can all be hazardous to paper and other artistic mediums. Exposed over time to the harmful UV light, fabrics, paper and prints can become brittle, fade in color or turn yellow. This damage is permanent and irreversible. Fortunately, ACRYLITE® Gallery UV filtering (OP3) provides the highest protection against damaging UV light in the industry; no other acrylic glazing can compete.

This UV protection property is inherent in its proprietary formulation. The UV protection is built into the acrylic, it's not just a coated surface. This translates to unsurpassed protection. Both natural and artificial light are no match for the UV protection of ACRYLITE® Gallery UV filtering (OP3).

Damage from Ultraviolet Light is Irreversible

When art, documents and photographs are not protected properly, harmful UV rays ages these by breaking the chemical bonds of color molecules. When the damage is done, the effects are irreversible. The good news? This is preventable when using ACRYLITE® Gallery UV filtering (OP3).



Features and Benefits

- Acid and distortion-free
- Exceptional optical clarity
- Lightweight, making it easier to handle, install and ship
- Highest UV filtering protection in the market
- Shatterproof at 10-20 times more impact resistant and safer than glass
- Guaranteed defect free

Processing

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

Applications

This sheet offers excellent solutions for the following applications:

- Backlit Frames
- Conservation Glazing
- Display Cases and Shadow Boxes
- Museum
- Framing and Picture Glazing

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Product Specifications

| Color | Color Number | Size | Thickness |
|---------------------|--------------|-------------|---------------|
| Clear | OB000 GT | 48" x 96" | .098" (2.5mm) |
| | | 51" x 100" | |
| | | 60" x 96" | |
| | | 72" x 96" | |
| | | 48" x 120" | |
| Colorless non-glare | OB000 AR | 60" x 120" | .118" (3mm) |
| | | 72" x 120" | |
| | | 100" x 150" | |
| | | | |
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| Clear mar resistant | OB000 MR1 | 48" x 96" | .236" (6mm) |
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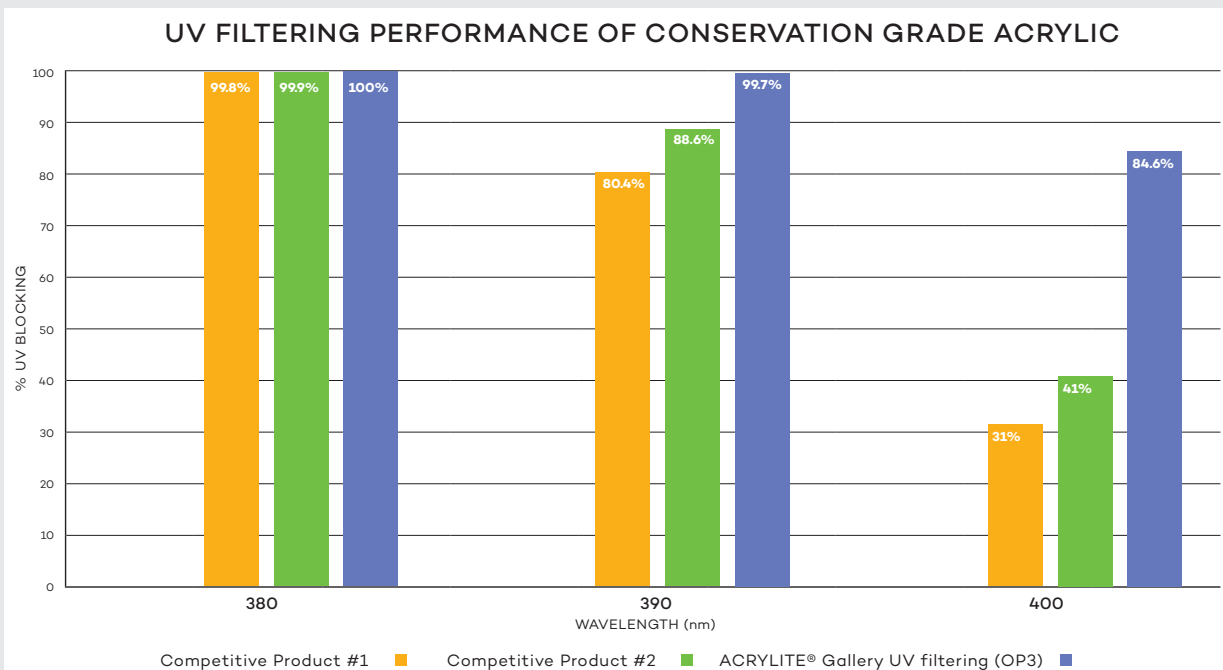
The Science Behind Better UV Protection

No other acrylic glazing can compete with ACRYLITE® Gallery UV filtering (OP3) when it comes to UV protection. Looking at the chart below, you can see the percentage blocking of UV light at three different wavelengths for ACRYLITE® Gallery UV filtering (OP3) as it compares to the top competitors in the market.

At 380nm, ACRYLITE® Gallery UV filtering (OP3) is just above its competitors.

At 390nm, ACRYLITE® Gallery UV filtering (OP3) continues to block out nearly 100% of UV light, while others show diminished levels of UV protection.

Toward the upper end of the UV spectrum at 400nm, ACRYLITE® Gallery UV filtering (OP3) continues to excel, while the others drop off precipitously.



The competitive data depicted in the graph above was generated via measurements taken from actual competitive samples obtained from the general marketplace. The data shown here is believed to be accurate and is shown as a general representation of product performance compared to other products listed above. One should always generate their own test data to verify accuracy. Light transmission data was generated in accordance with "ASTM D4802 – Standard Specification for Poly (Methyl Methacrylate) Acrylic Plastic Sheet".

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The ACRYLITE® Advantage

In the image below, the photo on the left is framed with ACRYLITE® Gallery 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® Gallery UV filtering (OP3) remains dark; indicating higher protection against UV light.

The evidence is clear. ACRYLITE® Gallery UV filtering (OP3) is the ultimate protection against damaging UV light.

Normal Light Conditions



UV Blacklight Test



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Röhm GmbH and its affiliates are a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

Fire Precautions

ACRYLITE® sheet is a combustible thermoplastic. Precautions should be taken to protect this material from flames and high heat sources. ACRYLITE® sheet usually burns rapidly to completion if not extinguished. The products of combustion, if sufficient air is present, are carbon dioxide and water. However, in many fires sufficient air will not be available and toxic carbon monoxide will be formed, as it will when other common combustible materials are burned. We urge good judgement in the use of this versatile material and recommend that building codes be followed carefully to assure it is used properly.

Compatibility

Like other plastic materials, ACRYLITE® sheet is subject to crazing, cracking or discoloration if brought into contact with incompatible materials. These materials may include cleaners, polishes, adhesives, sealants, gasketing or packaging materials, cutting emulsions, etc. See the Tech Briefs in this series for more information, or contact your ACRYLITE® sheet Distributor for information on a specific product.

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