ACRYLITE® Handling & Maintenance

Easy care for ACRYLITE®!

Wash ACRYLITE® acrylic sheet with a solution of mild soap or detergent and lukewarm water. Use a clean soft cloth, applying only light pressure. Rinse with clean water and dry by blotting with a damp cloth or chamois. Grease, oil or tar may be removed with a good grade of hexane, aliphatic naphtha, or kerosene.

- Protect ACRYLITE® sheet and maintain its surface gloss by occasional polishing with a good plastic cleaner and polish such as ACRIFIX® AC 1010 Anti-static Cleaner. Apply a thin, even coat with a soft clean cloth and polish lightly with cotton flannel. Then wipe with a damp cloth to help eliminate electrostatic charges that can attract dust particles.
- Dust with a soft, damp cloth or chamois. Dry or gritty cloths may cause surface scratches and create a static electric charge on the surface (see the section on neutralizing static electricity). ACRIFIX® AC 1010 Anti-static Cleaner will reduce static electricity and dust attraction.
- DO NOT USE: window cleaning sprays, abrasive cleaners, kitchen scouring compounds or solvents such as acetone, gasoline, benzene, alcohol, carbon tetrachloride, or lacquer thinner. These can scratch the sheet's surface and/or weaken the sheet causing small surface cracks called "crazing."

Guidelines for Handling & Maintenance
Additional Technical Information

ACRYLITE® Acrylic Bonding

Bonding done easily!

Our range of ACRIFIX™ cements and auxiliaries offer an ideal solution for every bonding application, always providing a perfect combination of speed, quality and bonding strength to meet your fabrication needs.

As a leading specialist in the acrylic sector, our ACRIFIX cements were developed as high performance products for bonding extruded or cast acrylic (PMMA), preferably ACRYLITE® products, to itself as well as to other materials.

- Reactive Cements
- Solvent Cements
- Auxiliary Products
- Buy these product direct from us - click here

Guidelines for Bonding
Additional Technical Information

ACRYLITE® Edge and Surface Finishing

ACRYLITE® can be polished easily!
Most ACRYLITE® products can be polished on both the edge and the surface.

Preparation:
The amount of finishing required to produce a smooth, transparent edge is dependent on the quality of the machined edge. A sharp and properly designed cutting tool will reduce the amount of the finishing work needed. Finishing work is also reduced when a spray coolant is used with the cutting tool to prevent excessive heat build-up.

- Polishing Edges: Polishing creates the best finished edge but requires the most preparation.
- Polishing Surfaces: If the scratches or machining marks are not too deep, the surface can be polished without prior sanding. W-heating can result.
- Sanding Edges: Wet sanding is desired for finishing acrylics.
- Sanding Surfaces: A scratched surface should not be sanded unless the imperfections are too deep to be removed by polishing alone.
- Scraping Edges: Easiest of al finishing techniques is scraping.
- Flame Polishing Edges: Flame polishing should be done with an oxygen-hydrogen welding torch.
- Edge Finishing Machines: Commercially available edge finishing machines offer a fast method of obtaining smooth edges without sanding or scraping.

Guidelines for Polishing
Additional Fabrication Tips

ACRYLITE® Drilling

Tips for drilling ACRYLITE®!

Please note::
- when possible use a drilling rack for safety
- use water or compressed air for cooling at deep drillings

- "air out" drill several times
- right cutting rate and right feed is identified by smooth, connected chip flow
- at start and close to puncture, reduce feed
- holes that may be subject to forces from screws or bolts should be deburred with a countersink
- to drill a hole in ACRYLITE sheet greater than 1" (25.4 mm), a circle cutter may be used

Guidelines for Drilling
Additional Fabrication Tips

ACRYLITE® Cutting

Easily cut ACRYLITE®!

Adequate separating tools are as follows:
- Circular saw bench
- Circular hand saws with hard metal saw blades, so-called multiple toothing saw-blades. The tooth pitch of the saw blades should be approx. 13 mm. Always use well ground saw blades, which have never previously been used on wood or aluminum
- Jig saw
- Saber saw
- Band saw
- Laser cutting
- Scribing and Breaking method

Guidelines for Cutting with circular saws
Guidelines for other methods of cutting
Additional Technical Information

ACRYLITE® Thermoforming

ACRYLITE® can be easily shaped!

Thermoforming offers processing advantages over competitive processes such as blow molding and injection molding. Thermoforming is often selected for fabricating prototype and display parts due to its low tooling costs.

Forming Processes
- Basic Vacuum Forming (male & female molds)
- Plug Assist Vacuum/Pressure Forming (Female Mold)
- Drape Forming
- Free Blowing and Vacuum Molding
- Vacuum Snap-Back Forming
- Plug and Ring Forming

Guidelines for Thermoforming
Additional Technical Information

ACRYLITE® Line Bending

ACRYLITE® can be easily bent!

ACRYLITE acrylic sheet is qickly and easily line bent using traditional line bending equipment, including nichrome wire, quartz, and infrared heaters for narrow areas.
Line bending temperatures vary epending on the properties and characteristics of the sheet. It is important to visit our technical center (addtional fabriction tips link) for tips and tempertaure recommendations when determining which method is suited for the product you are bending.

Guidelines for Bending
Additional Technical Information

ACRYLITE® TechKnowlogy Center

Need additional technical information regarding ACRYLITE® products?

Click on the link below to view FAQ's, technical information, tips and hundreds of other facts about our products.

Take me to the TechKnowlogy Center