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TECH TIPS

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Quick Links

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PLASTIC FABRICATION

Acrylic fabrication usually involves cutting, forming, bending and machining acrylic into displays, sign holders and pop up displays. Acrylic is often known by brand names such as Polycast, Lucite and Plexiglas. A custom fabricating shop will make a wide and diverse range of plastic parts. Acrylics can be used in fields such as scientific products, signage, retail display and machine parts. The materials are available in various thicknesses and colors.



HOW IT'S MADE

1. A program of the design is entered into the computer of a CNC so that the machine will read the size, holes and critical information.
2. Cut or route on CNC machine. Or use a panel saw for straight only cuts
3. Edge finishing - polish edges on the edge finishing machine
4. Rounded corners can be formed using the table router
5. Bending: lay the part over heating elements until the acrylic softens to the glass transition point and bend the part into shape by hand. The acrylic will then cool and harden into position.
6. Welding: resin bond glue by hand using a syringe for control because the glue is water clear and it chemically "welds" the parts together