

THERMOPLASTIC FABRICATION

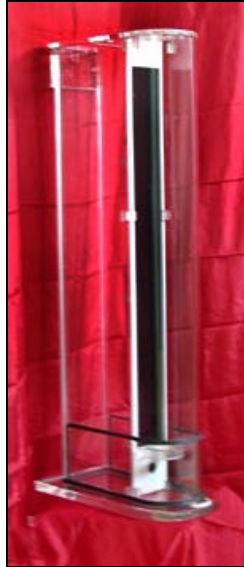
Specialty Glass now offers custom plastic fabrication!

We have many services available in our quality custom plastic fabrication division and can assist you from concept through actual design of your product. The items on these pages are only a sample of what we offer.

ACRYLIC

Acrylic plastic is more commonly known by its trademark name: Plexiglas® and Lucite®. Acrylic is an optically clear transparent material having outstanding weather resistance, high impact strength, and good chemical resistance.

Acrylic is available in many colors, shades and tints, with clear being the most widely used. Acrylic is relatively easy to fabricate and is suitable for a wide range of applications.



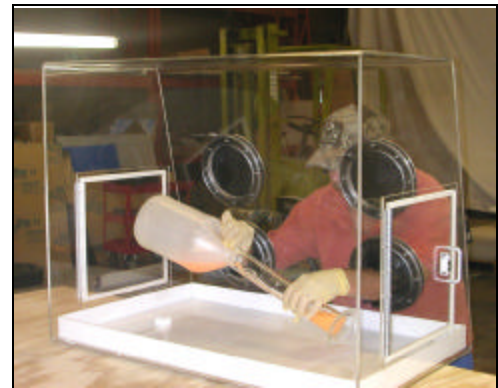
Acrylic Water Bath for Density Column



Clear Acrylic Balance Enclosure

Some of the most routinely fabricated plastic items are:

- | | | |
|----------------|-------------------|-----------------------|
| Fume Hoods | Dry Boxes | Draft Shields |
| Safety Shields | Safety Guards | Transparent Vessels |
| Organizers | Storage Units | Instrument Enclosures |
| Sight Glasses | Instrument Covers | Sink Backsplashes |



Clear Acrylic Dry Box with Bare Hand Entry Ports

(Gloved Boxes Also Available)



Photograph was set-up for demonstration purposes only.

Acrylic can be cut and shaped into just about any item, although it does create a lot of 'dust'.

To Order, Call Specialty Glass, Inc. Toll Free 1-800-899-2137

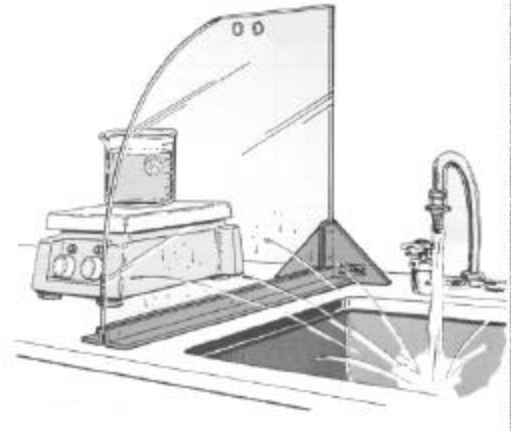
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POLYCARBONATE

Polycarbonate, more commonly known by its trade name, *Lexan*, is a virtually unbreakable clear plastic. Polycarbonate has many of the same uses as acrylic, but is used when safety, security and impact resistance are important.

Some of the most routinely fabricated polycarbonate plastic items:

- | | |
|-------------------|------------------|
| Splash Shields | Security Windows |
| Tote Buckets | Equipment Guards |
| Equipment Shields | Tote Carriers |



Polypropylene Container



Polypropylene Containment Vessel



POLYPROPYLENE

Polypropylene is a lightweight, affordable plastic that is resistant to chemicals and stains, is very impact resistant, and exhibits tensile strength at elevated temperatures.

Some of the most routinely fabricated polypropylene plastic items are:

- | | | |
|------------------------|-------------------|---------------|
| Containment Vessels | Catch Pans | Fume Hoods |
| Chemical Storage Trays | Bath Lids | Storage Units |
| Spacers | Sink Backsplashes | Tote Trays |
| Countertops | Tank Covers | |

Polypropylene is available in a variety of sizes to meet your containment requirements as well as in solid rod for custom machined parts.



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POLYETHYLENE

Polyethylene has virtually the same uses as Polypropylene depending on the type of chemical atmosphere.

Catch Pans	Containment	Fume
	Vessels	Hoods
Chemical Storage	Bath Lids	Storage
Trays		Units
Spacers	Sink	Tote Trays
	Backsplashes	
Countertops	Tank Covers	



Polyethylene Containers

Insulated Polyethylene Ice Bath



POLYVINYL CHLORIDE – PVC

PVC is much like polypropylene and polyethylene.



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TEFLON-PTFE®

Teflon has the highest service temperature capability and is the most resistant to chemicals. Teflon comes in different alloys that can be machined to specifications and has many uses.

Some of the most common uses for Teflon are:

Stirrer Paddles and Blades

Dry Lubricant

Tank Lids

Gaskets

Spacers

Bushings



Tubing

Bearings

PEEK™ (Polyether-ether Ketone) - A high performance thermoplastic.

PEEK™ Property Attributes:

High Tensile Strength

Maximum Service Temperature (500° F/260°C)

USP Class VI Compliant

Radiation Resistant

Excellent Weight Reduction Maintaining Superior Strength to Weight Ratio

Excellent Abrasion and Water Resistance

Excellent Chemical Resistance

Good Electrical Properties

Low Ionic Extractables and Outgassing

Resin is UL 94 V-0 Flammability Rated with

Extremely Low Smoke and Gas Emissions

PEEK™ Applications

Chemical Processing

Semiconductor

Medical

Aerospace

Electronics

Analytical Instrumentation

Pharmaceutical

Nuclear

Automotive

Hydrolysis

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Thank you for ordering from Specialty Glass, Inc.
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