



ACRYLIC

Also Known As (common industry trade names):

Acriglas . Acrylite . Chemcast . Lucite . Opti
Plasti-Glas . Plexiglas . PolyCast . Plazcryn

Material Information:

Acrylic is one of the most economical and easily fabricated plastics for aesthetic applications. Acrylic is available in a variety of translucent and opaque colors. The light weight (less than 50% as heavy as glass) and high impact resistance (6-17 times the impact resistance of glass) make it the material of choice for displays, glazing and other popular glass applications. Acrylic is also noted for its ease of fabrication. Acrylic can be machined, routed, drilled and cut as easily as wood. When heated, acrylic can be bent into almost any shape. Upon cooling the material retains the shape with surprising stability.

Applications:

Signs
Museum Cases
Picture Frames
Store Fixtures
Sky Lights
Aquariums
Displays
Graphic
Glazing
Machine Guards
Circuit Board
Fixtures

Characteristics/Enhancements/Varieties/Fills:

*Extruded:

By far the most economical of the acrylics. The extruded material maintains most of the properties of the cell cast. Extruded acrylic is available as a colorless sheet as well as in standard colors.

*Cell Cast:

Cast acrylic offers easier cutting and routing as well as a wider array of colors.

*Specialty Grades:

UV Filtering, UV Transmitting, Antiglare, Fluorescent, Abrasion Resistant, Texture, Imbedded, Matte Finish & Mirrored

Standard Shapes and Sizes (please call for custom sizes not listed):

Sheet Sizes: Standard is 48" x 96", some thicknesses available up to 96" x 144".

Sheet Thicknesses: 1/16" thick (Extruded) through 6" thick (Cast).

Rod Diameters: 1/8" OD (Extruded) through 8" OD (Cast) - clear and some colors

Rod Lengths:

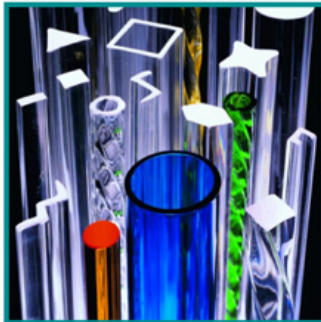
Tube: 1/4 OD through 6" OD (extruded in 6 ft. lengths only) in limited wall thicknesses. Cast up to 3 and 4 ft. OD with various wall thicknesses.

Film: Specialty product, for laminating applications usually - Please Call

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
phone 800-282-4388 / 713-979-0660
phone 800-457-8623 / 601-825-7919

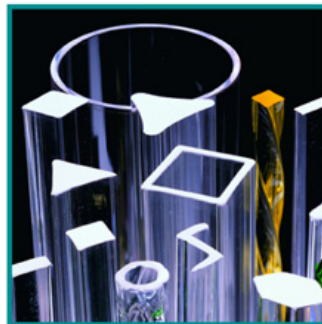
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E X C E L O N

ACRYLIC®

Extruded Tubes, Rods and Profiles



Available as:

- Round Tube
- Round Rod
- Square Rod
- Square Tube
- "J" Bar
- "W" Bar
- "Z" Bar
- Step Strip
- Rectangular Strip
- Spiral Twist Tube
- Spiral Twist Rod
- Right Triangle (Isosceles)
- Half Round
- Tri-Prism
- Equilateral Triangle
- Hexangle Rod
- Quad-Prism
- Cabochons
- Spheres

- Wide range of applications in the display, design and decor market
- Can be heat-formed for a variety of desired effects
- Easily imprinted or embossed
- Sunlight- and wear-resistance
- Indoor and outdoor use
- More economical than glass
- Acrylic extrusions are easily sawed, drilled, milled, engraved and finished
- Solvent bonding of properly fitting parts produces a strong, invisible joint.

Acrylic's refractive characteristics create a play of light that shows quality and design details to best advantage. Acrylic rod can be readily heat-formed or bent to re-direct light. Its striking prismatic quality makes TPI acrylic particularly conducive to chandeliers and other lighting fixtures.

Prolonged exposure to moisture, or even total immersion, does not significantly affect Plexiglas, causing no evident warping, swelling or loss of transparency. TPI's acrylic extrusions are ideal for bathroom towel bars, kitchen articles and certain laboratory fixtures.

Plexiglas extrusions, made with a UV stabilizer, have excellent sun-resistance, maintaining their sparkle and bright new look even in the harshest weather. TPI extrusions are ideal for long-life outdoor applications such as illuminated signs.

Acrylics are unaffected by aqueous solutions of most common laboratory chemicals, by detergents, cleaners, dilute inorganic acids, alkalis, and aliphatic hydrocarbons. Plexiglas is not recommended for use with chlorinated or aromatic hydrocarbons, esters and ketones.

TUBING TOLERANCES - O.D. & I.D.

1/8" - 1 1/8"	± .010"
1 1/4" - 2 1/4"	± .015"
2 1/2" - 3"	± .020"
3 1/4" - 3 3/4"	± .025"
4" - 4 3/4"	± .030"
5"	± .040"
5 3/4" - 6"	± .050"

ROUND ROD TOLERANCES

1/16" - 1/8"	± .005"
3/16"	± .007"
1/4" - 7/16"	± .010"
1/2" - 9/16"	± .012"
5/8"	± .015"
3/4"	± .025"
7/8" - 1"	± .030"
1 1/8" - 1 3/8"	± .035"
1 1/2"	± .040"

SQUARE ROD TOLERANCES

1/8"	± .005"
3/16" - 3/8"	± .010"
1/2" - 5/8"	± .015"
3/4"	± .020"
1"	± .025"
1 1/4"	± .035"

SQUARE TUBE TOLERANCES

3/8" - 3/4"	± .010"
1" - 2 1/4"	± .015"

- P.O.P. DISPLAYS • DISPENSING BOXES • MUSEUM EXHIBITS
- RETAIL STORAGE & DISPLAY • CHANDELIERS
- FURNITURE • NOVELTY ITEMS • TROPHIES
- KEY CHAINS • TOWEL BARS • MAGNIFIER BARS
- JEWELRY DISPLAYS • SLOT WALL SUPPORT • RULERS
- SPA FIXTURES • MODEL SHOPS
- DECORATIVE ARCHITECTURALS • LAB FIXTURES
- KITCHEN FIXTURES

CAUTIONS: Since acrylics are combustible, appropriate fire precautions should be observed. For building use, check for national and local codes. Impact resistance depends upon mounting, conditions of use, material thickness and surface integrity. Avoid exposure of acrylics to heat and aromatic solvents. Clean with soap or detergents and water only. Avoid abrasive cleaners.



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