

# Plexiglas®

## Plexiglas® Granite

ACRYLIC RESIN

### **Discover the natural advantage of acrylic.**

Plexiglas® Granite acrylic sheet, an all-acrylic thermoplastic capstock resin, provides a rich, smooth, stone-like appearance in a variety of applications. The resin is designed to be extruded monolithically, co-extruded over ABS — with or without a clear Solarkote® Film cap — or “tri-extruded” with Solarkote® A210 resin for outstanding gloss, chemical resistance, weatherability and fabrication flexibility.

Suitable applications for Plexiglas® Granite include:

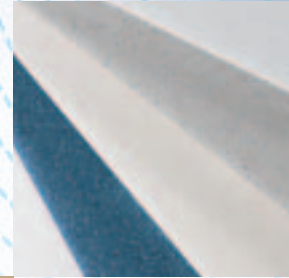
- **POP backdrops**
- **Store fixturing**
- **Table and counter tops**
- **Bathtub and shower surrounds**
- **Pool steps and slides**
- **Spa Shells**
- **Marine/RV specialty trim work**

# Plexiglas® Granite

ACRYLIC RESIN

Plexiglas® Granite acrylic sheet gives designers the freedom to duplicate the beauty of natural granite without the disadvantages of real stone. The surface can be textured, rough, pebbled, or smooth (in either matte or high gloss), and can be manufactured to be semi-translucent or opaque. Unlike naturally occurring granite, Plexiglas® Granite acrylic sheet is non-porous, so it does not require periodic sealing to prevent mold and mildew growth.

Plexiglas® Granite acrylic resin is available in black, white, beige, brown, green and blue, allowing custom blends at the extrusion stage for a virtually infinite number of special looks. It can be used flat or thermoformed into three-dimensional shapes, cut, sawed, routed, drilled and solvent-bonded to traditional Plexiglas® acrylic sheet.



Whether you are directly reinforcing mono-layer Granite sheet with fiberglass, or foam-reinforcing your ABS backed Granite sheet, it's hard to beat the balance of durability, beauty and toughness of the Plexiglas® Granite system.

**Altuglas International sells and markets Plexiglas® resins, including Granite and Solarkote® products, to the heavy gauge sheet extrusion/thermoforming market.**

## PHYSICAL PROPERTIES

SURFACE PROPERTY	ASTM METHOD	UNITS	SOLARKOTE® A210*	CONTINUOUS CAST PMMA**
<b>Solvent Resistance</b>				
70% IPA at 1% Constant Strain	Arkema	Minutes to Craze	13.4	< 1
Acetone at 1/2% Constant Strain	Arkema	Minutes to Craze	1.7	< 1
Lysol at 2% Constant Strain	Arkema	Minutes to Craze	26	3
Lacquer Thinner at 1/2% Constant Strain	Arkema	Minutes to Craze	2	2
Dow Scrubbing Bubbles at 2% Constant Strain	Arkema	Minutes to Craze	6	7
Gasoline (93 Octane) at 1% Constant Strain	Arkema	Minutes to Craze	9	2
<b>Impact</b>				
Izod Impact at 23°C	D 256	Ft. Lbs. / In.	1.4	x
Bi-Axial Impact at 23°C, Energy at Max. Load	D 3763	Ft. Lbs.	10.1	3.2
Bi-Axial Impact at -20°C, Energy at Max. Load	D 3763	Ft. Lbs.	4.6	2.6
Bi-Axial Impact at 23°C, Total Energy	D 3763	Ft. Lbs.	18.4	3.7
Bi-Axial Impact at -20°C, Total Energy	D 3763	Ft. Lbs.	4.8	3.3

\* Solarkote® A210 performance results are based on injection molded plaques of the indicated polymer that were properly annealed. Residual stress from extrusion or thermoforming may affect chemical resistance.

\*\* Continuous cast PMMA test specimens were cut from commercially available ccPMMA sheet. Samples were annealed to remove production stresses prior to testing.

Plexiglas® acrylic plastic is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.

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See MSDS for Health & Safety Considerations.  
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