



AZCRYL GP Extruded Acrylic Sheet

AZCRYL GP extruded acrylic sheets are made from 100% virgin MMA (methyl methacrylate monomer) and are made to exacting standards. AZCRYL is a lightweight, crystal clear, weather resistant sheet ideal for many fabrication or glazing applications. This sheet has excellent long term optical clarity, chemical resistance, weatherability and can be thermoformed, cut, drilled, bent, machined, engraved, printed, polished and glued. AZCRYL GP is an excellent choice for acrylic and glass replacement projects for applications including retail POP store displays, signage/print, glazing, lighting and picture framing.

- High Impact Strength vs Standard Glass
- High Clarity with up to 92% Light transmission
- Rigid and Light Weight
 - Half the Weight of Glass
- Easily Adhered, Fabricated & thermoformed
- 100% Recyclable
- Run To Size Available
- Stock thicknesses available: .118", .177' & .220"
- Screen printable with excellent surface energy
- Limited ten (10) year warranty



AZCRYL GP Extruded Acrylic Sheet

TYPICAL STANDARD PROPERTIES

PROPERTY	TEST METHOD	UNITS	AZCRYL GP SHEET
GENERAL			
Specific Gravity/Relative Density	ASTM D792	-	1.19
Sound Transmission	ASTM E90 / E413	dB	27
Water Absorbtion	ASTM D570	%	0.4
Mold Shrinkage	ASTM D955	mils/in	2-6
MECHANICAL PROPERTIES			
Tensile Strength	ASTM D638	psi	11,030
Tensile Elongation	ASTM D638	psi	5.8
Tensile Modulus of Elasticity	ASTM D638	psi	490,000
Flexural Strength	ASTM D790	psi	17,000
Izod Impact Strength, notched	ASTM D256	ft-lb./in	0.4
Tensile Impact Strength	ASTM D1822	ft-lb./in	20
Abrasive Resistance - change in haze			
10 cycles	ASTM D1044	Haze %	11.2
50 cycles	ASTM D1044	Haze %	24
200 cycles	ASTM D1044	Haze %	24.9
Rockwell Hardness	ASTM D785	-	M-95
THERMAL PROPERTIES			
Maximum Recommended Continuous Service Temperature	-	°F	170-190
Softening Temperature	ASTM D1525	°F	170-190
Deflection Temp. @ 264 psi (1.8 MPa)	ASTM D648	°F	203
Deflection Temp. @ 66 psi (0.45 MPa)	ASTM D648	°F	207
Coefficient of LinearThermalExpansion	ASTM D696	in/in/ °F	3.0 x 10 ⁻⁵
Thermal Conductivity	ASTM C177	Btu-ft/ft ² /hr/°F	0.075
Flammability (Burning Rate)	ASTM D635	in/min	1.0
Flammability	UL 94	-	HB
Smoke Density Ring	ASTM D2843	%	3.4
Self-Ignition Temperature	ASTM D1929	°F	833
Flame Spread Index	ASTM E84	-	115
Smoke Developed Index	ASTM E84	-	550
OPTICAL PROPERTIES			
Light Transmission - Total	ASTM D1003	%	92
Light Transmission - Haze	ASTM D1003	%	<2

Note:
The typical standard property values quoted are not always strictly equivalent and are based on tests on representative samples. The information given in this publication is based on our general experience and given in good faith. It is intended as a general guide and must not be considered as a binding specification. In no way does this information incur the liability of AZ Polymers LLC, especially in infringement of the rights of a third party.

AZCRYL Acrylic Sheet 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. The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, AZPolymers expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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