PLEXIGLAS® BY ARKEMA

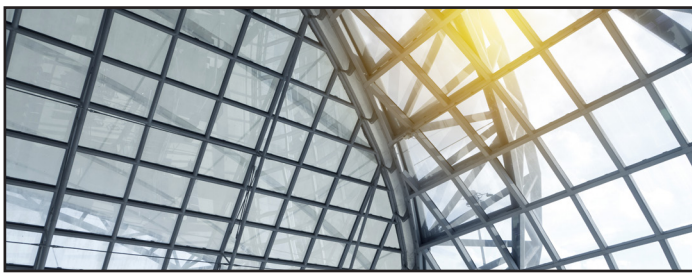
Plexiglas® G

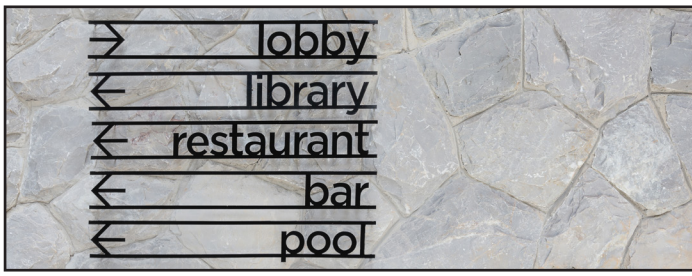
Premium Grade Cell-Cast Acrylic For When Quality Matters

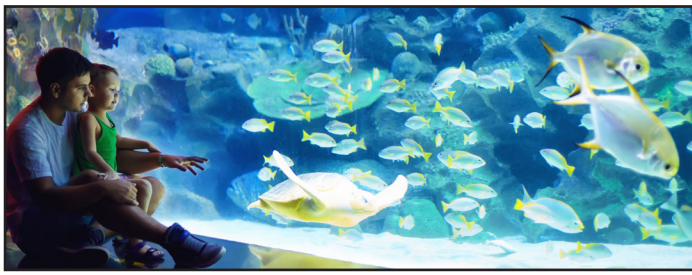
Plexiglas® G cell-cast acrylic sheet satisfies the requirements of nearly all high performance applications. The full line of Plexiglas® cast acrylics provide superior long term optical quality, chemical resistance, weatherability, and numerous other benefits that make it the number one choice for acrylic and glass-replacement projects.

This versatile and light-weight material has many residential, commercial, industrial, and professional uses. The full list of possibilities is limited only by the imagination, but typical applications include:

- Aquariums
- Architectural Glazing
- Furniture
- Glazing
- Hockey Rinks
- Indoor Signage
- Optical Lenses
- Outdoor Signage
- Pediatric Incubators
- POP Displays
- Skylights







COLOR OFFERINGS*

Plexiglas® G acrylic sheet is available in a variety of standard color offerings, premier colors choices, and also offers the ability to create new custom colors or color matches to existing colors, so you're sure to find the color you need.

Plexiglas® G acrylic sheet is available in the standard gloss pattern, as well as in the single sided P-95 and double sided P-95 patters for a softer, frost-like finish.

*Premier and custom colors are available upon request; minimum order quantity and lead times may vary. Not all thickness/sheet size/color combinations may be in stock. Please contact our customer service team for more informatino.

PRODUCT OFFERINGS**

Plexiglas® G acrylic sheet is available in a variety of sizes and thicknesses, with custom sheet sizes and thicknesses available upon request.

THICKNESS	
0.118″	0.177″
0.236″	0.354″
0.472″	0.625″
0.708″	0.944″
1.25″	1.50″
1.75″	2.00″

SHEET SIZE		
48″ x 96″	60″ x 96″	72″ x 96″
49″ x 97″	61″ x 97″	73″ x 97″
50″ x 99″	62″ x 99″	74″ x 99″
51″ x 100″	63″ x 100″	75″ x 100″

**Not all thickness/sheet size/color combinations may be in stock. Minimum order quantity and lead times may vary. Cast acrylics are produced as part of a batch/yield process. Thicknesses and sheet sizes listed are not a complete list of capabilities. Please contact our customer service team for more information.

HOW TO PURCHASE

Plexiglas® G acrylic sheet can be purchased through authorized distributors throughout the Americas.

For product inquiries, technical questions, or contact information for your closest distributor, please contact our customer service team at: arkema.usph-sheet-cs@altuglasint.com or 1-800-523-7500

PROPERTIES	TEST METHOD	VALUE	UNIT OF MEASURE
PHYSICAL			
Nominal Thickness for data unless otherwise noted		0.236″	in
Specific Gravity	ASTM D-792	1.19	—
Rockwell Hardness	ASTM D-785	100	M scale
Water Absorption (24 hr immersion @ 73°F)[1]	ASTM D-570	0.2	%
Water Absorption (Long Term Equilibrium – 28 days @ 212°F)[1]	ASTM D-570	0.8	%
Poisson's Ratio	N/A	0.35	—
OPTICAL			
Refractive Index (ND @ 73°F (23°C))	ASTM D-542	1.49	—
Luminous Transmittance[1]	ASTM D-1003	92.0	%
Haze[1]	ASTM D-1003	< 2.0	%
MECHANICAL			
Tensile Strength, maximum	ASTM D-683	10,500	psi
Tensile Strength, yield	ASTM D-683	10,500	psi
Tensile Elongation	ASTM D-683	4.9	%
Tensile Modulus of Elasticity	ASTM D-683	450,000	psi
Flexural Strength, maximum	ASTM D-790	16,000	psi
Flexural Modulus of Elasticity	ASTM D-790	450,000	psi
Notched Izod Impact @ 73°F (23°C)	ASTM D-256	0.3	ft-lb / in
Un-Notched Charpy @ 73°F (23°C)	ASTM D-256	7.0	ft-lb / 0.5″x1″ section
THERMAL			
Deflection Temperature under Flexural Load @ 264psi - unannealed[1]	ASTM D-648	205	°F
Coefficient of Thermal Expansion at 60°F	ASTM E-831	3.9	in / in / °F x 10^{-5}
Coefficient of Thermal Conductivity	ASTM- C-177	1.3	BTU / (hr) (ft^2) (°F/in)
U-Value (summer gain, winter loss)	N/A	0.89, 0.96	BTU / (hr) (ft^2) (°F/in)
Specific Heat Capacity at 77°F	N/A	0.35	BTU / (lb °F)
Maximum Recommended Continuous Service Temperature	N/A	180 - 200	°F
Recommended Thermoforming Temperature	N/A	290 - 360	°F
CRAZE RESISTANCE			
Constant Stress Craze Resistance, IPA[5]	Modified ARTC Method Mil P-6997	2,100	psi
Constant Stress Craze Resistance, Aromatic / Alcohol Blend[5]	Modified ARTC Method Mil P-6997	1,700	psi
FLAMMABILITY[3] & SPECIFICATION COMPLIANCE			
Horizontal Burn Rate[1,2]	ASTM D-635	< 1.0	in / min
Smoke Density	ASTM D-2843	1.0	%
Self Ignition Temperature	ASTM D-1929	860	°F
Surface Burning Characteristics — Flame Spread	CAN/ULC-S102.2-07 File R16788	135 (0.125″ - 0.250″)	—
Surface Burning Characteristics — Smoke Developed	CAN/ULC-S102.2-07 File R16788	> 500 (0.125″ - 0.250″)	—
Plastics Component QMFZ2.E39437 — Flammability Classification	UL 94	94HB (≥ 0.060″)	—
Plastics Component QMFZ2.E39437 — Outdoor Suitability	UL 746C	f1 (≥ 0.060″ Colorless) f2 (≥ 0.060″ ALL)	—
International Building Code	IBC 2606.4	CC2 (0.118″ – 0.944″)	—
American National Standard for Safety Glazing	ANSI Z97.1	PASS (≥ 0.080″)	—
FMVSS 205 — Federal Motor Vehicle Safety Glazing	ANSI Z26.1	AS-5, AS-6, AS-7	—
FAA (FAR) Section 25.853	Appx F, Part 1, Paragraphs (a)(1)(iv), Procedure (b)(5) 15 second horizontal burn	PASS (0.060″ – 0.472″)	—
Standard Specification for PMMA Acrylic Plastic Sheet	ASTM D-4802	Category A-1, Finish 1	—

JNS 0519

Data given are average values and should not be used for specification purposes.
1– This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.
2– Tests performed on 0.118″ thickness.
3– Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.
4– Conditioned for 24 hours at 122°F.
5– The values are after the material has been heated for forming.

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