

Plexiglas® Frosted

ACRYLIC SHEET

Vivid colors. Endless possibilities.

Durable, lightweight and uniquely finished, Plexiglas® Frosted acrylic sheet is an excellent material for backdrops, columns, lighting diffusers, illuminated signage, shelving, tabletops, visual displays and more. The frosted look isn't just on the surface — it's engineered throughout the entire acrylic structure. Unlike surface embossed textures, it retains its frosted finish even after thermoforming.

PLEXIGLAS®
BY ARKEMA

- Resists fingerprints, scratches, and smudges
- Easy to clean and virtually maintenance-free
- Allows maximum light transmission with excellent diffusion
- Dramatic, rich effects while hiding light sources
- Easy to cut, drill, rout, finish, and cement
- Thickness available 0.060" - 0.472"
- Patented technology within the scope of one or more claims of US patent 7,067,188

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ACRYLIC SHEET

TYPICAL STANDARD PROPERTIES

PROPERTIES	TEST METHOD	UNITS	VALUE
Physical			
Nominal Thickness for data unless otherwise noted	N/A	in	0.236"
Specific Gravity	ASTM D-792	—	1.18
Rockwell Hardness	ASTM D-785	M scale	95
Optical			
Refractive Index (ND @ 73°F)	ASTM D-542	—	1.49
Luminous Transmittance ¹	ASTM D-1003	%	83
Mechanical			
Tensile Strength, maximum	ASTM D-638	psi	10,200
Tensile Elongation	ASTM D-638	%	4.5
Tensile Modulus of Elasticity	ASTM D-638	psi	450,000
Flexural Strength, maximum	ASTM D-790	psi	15,000
Flexural Modulus of Elasticity	ASTM D-790	psi	450,000
Notched Izod impact @ 73°F (23°C)	ASTM D-256	ft-lb / in	0.3
Thermal			
Deflection Temperature under Flexural Load @ 264psi – unannealed ¹	ASTM D-648	°F	185
Maximum Recommended Continuous Service Temperature	N/A	°F	170 – 190
Recommended Thermoforming Temperature	N/A	°F	275 – 350
Flammability³ & Specification Compliance			
Horizontal Burn Rate ^{1,2}	ASTM D-635	in / min	1.0
Smoke Density ⁴	ASTM D-2843	%	5.0
Self Ignition Temperature	ASTM D-1929	°F	850
Plastics Component – QMFZ2.E39437 Flammability Classification	UL 94	—	94 HB (≥ 0.060" Colorless)
Standard Specification for PMMA Acrylic Plastic Sheet	ASTM D-4802	—	Category B-1, Finish 2

- Data given are average values and should not be used for specification purposes.
- This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.
 - Tests performed on 0.118" thickness.
 - Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.
 - Tests performed on 0.375" thickness.

STANDARD COLOR OFFERING

COLORLESS		RED	3170
LIGHT GRAY	3160	BLUE	3171
LIGHT BRONZE	3161	WHITE TRANSLUCENT	W 3172
DARK BLUE	3162	BLUE	3207
LIGHT BLUE	3163	YELLOW	3209
DARK RED	3164	RED	3230
BLACK OPAQUE	3165	RED	3231
MEDIUM BLUE	3166	ORANGE	3236
LIGHT GREEN	3167	BLUE	3237
GREEN	3168	ORANGE	3238
ORANGE	3169	ORANGE	3239

SHEET SIZE	THICKNESS
48" x 96"	0.080"
60" x 96"	0.118"
72" x 96"	0.177"
51" x 100"	0.220"
63" x 100"	0.236"
72" x 100"	0.354"
75" x 100"	0.472"

All thicknesses available in all sheet sizes. Other thicknesses and sizes are subject to minimum order requirements and are quoted upon request.

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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