

ACRYLIC (polymethyl methacrylate)

ACRYLITE® / OPTIX® / PLEXIGLAS®



Acrylic is a transparent thermoplastic with outstanding strength, stiffness, and optical clarity. Acrylic sheet is easy to fabricate, bonds well with adhesives and solvents, and is easy to thermoform.

Acrylic is widely used for architectural glazing, indoor and outdoor signs, retail store fixtures, and point-of-purchase displays.

Acrylite. ALTUGLAS INTERNATIONAL ARKEMA GROUP PLASKOLITE, INC.

KEY CHARACTERISTICS:

- Optically clear
- Strong and stiff
- Easy to fabricate
- Easy to solvent bond
- UV resistant grades available
- Impact resistant grades available
- Wide array of coatings available, including: abrasion resistant, bullet resistant, and ESD (electrostatic dissipative)
- FDA compliant grades available (non UV stabilized)
- Cell cast grades available
- Variety of profiles and shapes available
- Many colors and textures available

APPLICATIONS:

- Signs
- Retail fixtures
- Point-of-purchase displays
- Architectural glazing
- Skylights
- Aircraft canopies
- Boat windshields
- Transparent manifolds

ACRYLIC TYPICAL PROPERTIES:

	UNITS	ASTM TEST	CONTINUOUSLY PROCESSED ACRYLIC SHEET
Tensile strength	psi	D-638	10,000
Flexural modulus	psi	D-790	480,000
Izod impact (notched)	ft-lbs/in	D-256	0.4
Heat deflection temperature @264 psi	°F	D-648	195
Maximum continuous service temperature in air	°F		160
Water absorption (immersion 24 hours)	%	D-570	0.20
Coefficient of linear thermal expansion	in/in/°F x 10 ⁻⁵	D-696	4.0
Light transmittance	%	D-1003	92

Standard Sizes: SHEET: 48"x96" (0.06"-3.0" thick), 60"x96" (0.08"-2.0" thick), 51"x100" (0.08"-2.0" thick), 72"x96" (0.08"-2.0" thick)
 ROD: diameter 0.125"-4.5" TUBE: OD 0.25"-6.0"

Length, width, thickness, and diameter tolerances vary by size and by manufacturer • Custom sizes and colors available upon request • Many of our materials are available as films with thicknesses of 0.029" or less. Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.

Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, and prototyping materials for over 65 years



NATIONWIDE
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