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TECHNICAL DATA SHEET Mirrored Acrylic (PMMA)

(Polymethyl-Methacrylate)

Our mirrored acrylic sheets are made from continuously processed (extruded) acrylic sheet. The front side has a protective paper masking that keeps the sheet scratch free while we cut, sand, or fabricate. Available in clear or vibrant colors, this durable acrylic mirror is ideal for all types of use whether drilled, sanded, polished, machined, cold formed for curved shapes or heated for sharp line bends. Safer than glass with ten times the break resistance, acrylic mirror lends itself to many different applications. Intended for interior applications for decoration, display, and/or where safety considerations require the break resistance of acrylic sheet. Acrylic mirror offers a combination of the lightweight, excellent shatter-resistant qualities of acrylic plastic and half the weight of glass.

TYPICAL PROPERTIES of ACRYLIC PMMA

ASTM or UL test	Property	Acrylic
PHYSICAL		
	Density (lb/in ³)	0.043
D792	(g/cm ³)	1.18
D570	Water Absorption, 24 hrs (%)	0.3
MECHANICAL		
D638	Tensile Strength (psi)	8,000 - 11,000
D638	Tensile Modulus (psi)	350,000 - 500,000
D638	Tensile Elongation at Break (%)	2
D790	Flexural Strength (psi)	12,000 - 17,000
D790	Flexural Modulus (psi)	350,000 - 500,000
D695	Compressive Strength (psi)	11,000 - 19,000
D695	Compressive Modulus (psi)	-
D785	Hardness, Rockwell	M80 - M100
D256	IZOD Notched Impact (ft-lb/in)	0.3
THERMAL		
D696	Coefficient of Linear Thermal Expansion	5 - 9
	$(x \ 10^{-5} \text{ in./in./°F})$	
D648	Heat Deflection Temp (°F / °C)	
	at 264 psi	150-210 / 65-100
D3418	Melting Temp (°F / °C)	265-285 / 130-140
-	Max Operating Temp (°F / °C)	150-200 / 65-93
C177	Thermal Conductivity	
	(BTU-in/ft²-hr-°F)	3.9
	(x 10 ⁻⁴ cal/cm-sec-°C)	1.2
UL94	Flammability Rating	-
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	400
D150	Dielectric Constant at 60 Hz	4.0
D150	Dissipation Factor at 60 Hz	0.05
OPTICAL		
-	Light Transmission, minimum (%)	92
-	Refractive Index	1.48-1.50

Benefits

Shatter proof High aesthetic visibility Reflective brilliant finish

Applications

POP displays Cosmetic cases & covers Signs Safety Plastic letters Decorative profiles Mirrors

SHAPE AVAILABLE



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NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.