



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## ACRYLIC

<b>Item:</b>	ACRYLIC (polymethyl methacrylate)	
<b>Description:</b>	Acrylic is a transparent thermoplastic with outstanding strength, stiffness, and optical clarity. Acrylic sheet is easy to fabricate, and bonds well with adhesives. Because it's a thermoplastic and softens under extremely high temperatures, acrylic can be formed to virtually any shape. Incredibly durable, acrylic is a suitable solution over a broad temperature range, and has superior weathering properties.	
<b>Applications:</b>	<ul style="list-style-type: none"> <li>• Transparent manifolds</li> <li>• Signs</li> <li>• Skylights</li> </ul>	
<b>Key Characteristics:</b>	<ul style="list-style-type: none"> <li>• Easy to fabricate</li> <li>• UV resistant grades available</li> <li>• Strong and Stiff</li> </ul>	
<b>Availability:</b>	<b>Fabricated Parts:</b>	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.

Length, width, thickness, and diameter sizes are available in a wide variety, with the proper product specified for your particular application. Product colors will vary according to material type.

Typical Properties	Test Method	Acrylic
Water Absorption, immersion 24 hours (%)	ASTM D570	0.2
Flexural Modulus (psi)	ASTM D790	480,000
Tensile Strength (psi)	ASTM D638	10,000
Rockwell Hardness	ASTM D785	M-94
Barcol Hardness	ASTM D2538	49
Izod impact, notched (ft-lbs/in of notch)	ASTM D256	0.4
Heat Deflection Temperature @ 264 psi (°F)	ASTM D648	195
Maximum continuous service temperature in air (°F)	--	160
Volume Resistivity	ASTM D257	1.6 x 10 <sup>16</sup> Ohm-cm
Surface Resistivity	ASTM D257	1.9 x 10 <sup>15</sup> Ohms
Coefficient of Linear Thermal Expansion ((x 10 <sup>-5</sup> in./in./°F))	ASTM D696	4.0
Light Transmittance (%)	ASTM D1003	92
UV Transmission	--	0 @ 320 Nanometers

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

*Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.*