



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ABS

Item:	ABS (Acrylonitrile-Butadiene-Styrene)	
Description:	ABS (Acrylonitrile-Butadiene-Styrene) is a copolymer composed of two copolymers. This combination of the two copolymers gives ABS an excellent combination of strength, rigidity, and toughness.	
Availability:	Fabricated Parts:	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	ASTM or UL test	RYTON®
Density (lb/in ³) (g/cm ³)	ASTM D792	0.038 1.04
Water Absorption %	ASTM D570	--
Tensile Strength (psi)	ASTM D638	6,500
Tensile Modulus (psi)	ASTM D638	340,000
Tensile Elongation at Break (%)	ASTM D638	25
Flexural Strength (psi)	ASTM D790	11,000
Flexural Modulus (psi)	ASTM D790	320,000
Compressive Strength (psi)	ASTM D695	--
Compressive Modulus (psi)	ASTM D695	--
Hardness, Rockwell	ASTM D785	R105
IZOD Impact Notched (ft-lb/in.)	ASTM D265	7
Coefficient of Linear Thermal Expansion x 10-5 in./in./°F	ASTM D696	5.3
Heat Deflection Temperature @ 264 psi °F/°C	ASTM D648	215 / 102
Melting Temperature (°F/°C)	ASTM D3418	- / -
Max Operating Temp (°F / °C)	--	140 / 60
Thermal Conductivity (BTU- in./ft ² -hr.-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	C177	-- --
Flammability Rating	UL 94	H-B
Dielectric Strength (V-mil) short time, 1/8" thick	ASTM D149	--
Dielectric Constant at 60 Hz	ASTM D150	--
Dissipation Factor at 60 Hz	ASTM D150	--
Volume Resistivity (ohm-cm) at 50% RH	ASTM D257	1015

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.