



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

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

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