



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## ABS

### Amorphous Commodity Plastic

ABS (Acrylonitrile-Butadiene-Styrene) is a copolymer composed of two copolymers. This combination gives ABS excellent properties that include high strength, rigidity, chemical resistance, and toughness. ABS is also FDA-compliant.

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

ISO/IEC				ASTM		
PROPERTIES	Test Method	Units	Typical Values	Test Method	Units	Typical Values
PHYSICAL	Density	g/cm <sup>3</sup>	1.03	ASTM D792	lb/in <sup>3</sup>	0.0372
	Water Absorption	%	0.30	ASTM D570	%	0.30
THERMAL	Coefficient of Linear Thermal Expansion			ASTM D696	μin/in-°F	489
	Max. Continuous Service Temperature in Air				°F	222
	Heat Deflection Temperature at 264 PSI				°F	168
	Flammability: UL94 (1/8")		HB			HB
MECHANICAL	Tensile Yield Strength at 73°F			ASTM D638	PSI	5,600
	Tensile Modulus			ASTM D638	KSI	301
	Flexural Modulus			ASTM D790	KSI	313
	Rockwell Hardness: R Scale			ASTM D868		102
	IZOD Impact: Notched			ASTM D256	ft-lb/in	8
	Coefficient of Friction: Dynamic			ASTM D1895		0.35
ELECTRICAL	Dielectric Constant at 1 MHz			ASTM D150		3.20
	Dielectric Strength			ASTM D149	V/mil	450
	Surface Resistivity			ASTM D257	Ohms/sq	10 <sup>14</sup>

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the 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, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.