



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## LDPE

### Semi-Crystalline Commodity Plastic

LDPE, or low-density polyethylene, is a lightweight, flexible, and recyclable semi-crystalline thermoplastic. It is made from ethylene monomers and is used to make many plastic products. LDPE is resistant to chemicals – making it safe for food storage and a good electrical insulator in low-temperature environments. Common applications include packaging, laboratory equipment, computer components, and cable conduits.

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.

		ASTM*	TYPICAL VALUES		
PROPERTIES		Test Method	Units	LDPE	
PHYSICAL	Specific Gravity	ASTM D792		0.92	
THERMAL	Melting Temperature: DSC, 10°C(50°F)/min	ASTM D3418	°F	230	
	Heat Deflection Temperature (264 PSI)	ASTM D648	°F	160	
	Continuous Service Temperature in Air 20 hrs.		°F	160	
	Flammability: UL94 (3mm (1/8 in.))			HB	
MECHANICAL	Ultimate Tensile Strength	ASTM D 638	PSI	1,700	
	Tensile Strain at Yield	ASTM D638	%	100	
	Tensile Strain at Break	ASTM D638	%	400	
	Tensile Modulus of Elasticity	ASTM D638	KSI	57	
	IZOD Impact Strength: Notched	ASTM D256	KSI	0	
	Flexural Modulus	ASTM D790	KSI	29	
	Shore Hardness: D Scale	ASTM D2240		54	
ELECTRICAL	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.