



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

NEMA G-11 (Formable) Glass Epoxy Laminate

NEMA Grade Formable G-11 material is a formable, high-strength, medium weave glass epoxy composite that retains 50% of its original properties at 150°C. Typical applications include insulation in power generation equipment and other structural parts.

STANDARDS: NEMA LI-1: Grade G-11 | IEC 60893: EPGC 203 | MIL-I-24768: /3-GEB

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/IEC		
PROPERTIES		Test Method	Units	Typical Values
PHYSICAL	Density	ASTM D792	g/cm ³	1.90
	Moisture Absorption: 0.125"	ASTM D570	%	0.09
THERMAL	Temperature Index: Mechanical	LI-6	°C	180
	Temperature Index: Electrical	LI-6	°C	160
MECHANICAL	Tensile Strength: Lengthwise (0.125")	ASTM D638	PSI (MPa)	40,000 (275)
	Compressive Strength: Lengthwise (0.125")	ASTM D695	PSI (MPa)	50,000 (344)
	Flexural Strength: Lengthwise	ASTM D790	PSI (MPa)	54,000 (372)
	Flexural Strength: Crosswise	ASTM D790	PSI (MPa)	44,000 (303)
	IZOD Impact Strength: Edgewise with the Grain	ASTM D256	ft-lbs/in	10
	IZOD Impact Strength: Edgewise across the Grain	ASTM D256	ft-lbs/in	9
	Bond Strength: 0.500"	ASTM D229	lb (kg)	1,950 (886)
	Dielectric Strength: Parallel (0.500")	ASTM D149	kV	65
ELECTRICAL	Arc Resistance	ASTM D149	Seconds	185
	Dielectric Constant: 1 MHz (0.500")	ASTM D150		5.1

LAMINATE SHEET AVAILABILITY

THICKNESS

0.031 • 0.047 • 0.062 • 0.084 • 0.098 • 0.125 (in.)

SHEET SIZE

48 x 72 (in.)

LAMINATE SHEET AVAILABILITY (SI)

THICKNESS

0.79 • 1.19 • 1.57 • 2.13 • 2.49 • 3.10 (mm)

SHEET SIZE (SI)

• 121.9 x 182.8 (cm)

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.



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MARKETS



Switchgear



Electronics



Power Generators



Motor Applications



Transformers



Metals Processing



Electric Vehicles



Military/Aerospace



Oil & Gas



Medical



Space

OUR EXPERTISE IS YOUR COMPETITIVE ADVANTAGE

The Gund Company provides a wide range of material solutions from rigid, glass epoxy composites to high-temperature, silicone sponges.

We take a consultative approach to understanding your application by working with your engineers and buyers to find materials that fit the application. By understanding the most important material properties, we often find cost-reduction opportunities. Our Application Engineering Teams have decades of material experience and look forward to working with you on your upcoming project.

Material Families:

- Thermoset Rigid Laminates and Composites
- Flexible Laminates, Papers, Films, and Felts
- Thermoplastic Materials
- Elastomeric Materials

Our Manufacturing Capabilities Include:

- Compression Molding
- Pultrusion
- Filament & Convoluted Wound Tube
- Infusion & B-Stage Composites Lay-up and Molding
- Injection Molding
- Extrusion of Thermoplastics

Our Engineering Capabilities Include:

- Custom Material Development
- Resin Formulation
- Laboratory Testing
- Comparative Materials Evaluation



THE GUND COMPANY GLOBAL FOOTPRINT – LOCAL SERVICE

