



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

NEMA G-12 (G-11H) PTFE Coated Glass Epoxy Laminate

NEMA G-12 (G-11H) with a PTFE coating is a high-pressure laminate manufactured from a glass cloth substrate impregnated with a high-temperature epoxy resin system and a thin layer of PTFE bonded to the surface to enhance friction properties. This grade meets or exceeds all specifications for NEMA G-11 and G-12 with a higher temperature rating exceeding 180°C. PTFE-coated G-12 is excellent for applications requiring a low coefficient of friction and improved wear properties such as generator creepage strips and retaining ring insulation.

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. Though the standard color is green, product colors vary according to material type.

		ASTM/IEC		
PROPERTIES		Test Method	Units	Typical Values
PHYSICAL	Density	ISO 1183/A	lbs/in ³ (g/cc)	0.069 (2.0)
	Moisture Absorption: 0.125"	ISO 62/1	%	0.5
THERMAL	Heat Resistance	IEC 216	°C	180
MECHANICAL	Tensile Strength: Lengthwise (0.125")	ISO 527	PSI (MPa)	34,000 (240)
	Compressive Strength: Lengthwise	ISO 604	PSI (MPa)	50,760 (350)
	Compressive Strength: Crosswise	ISO 604	PSI (MPa)	72,500 (500)
	Flexural Strength: 23°C	ISO 178	PSI (MPa)	58,000 (400)
	Flexural Strength: 150°C	ISO 178	PSI (MPa)	3,100 (220)
ELECTRICAL	Dielectric Strength: Perpendicular @ 23°C	IEC 243	V/mil (kV/mm)	512 (20)
	Comparative Tracking Index	IEC 112	CTI	180

LAMINATE SHEET AVAILABILITY

THICKNESS

0.031 - 0.625 (in.)

SHEET SIZE

40 x 125 • 48 x 36 (in.)

LAMINATE SHEET AVAILABILITY (SI)

THICKNESS

0.787 - 15.860 (mm)

SHEET SIZE (SI)

102 x 318 • 122 x 91 (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

