



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

Cryo G-10 Cryogenic Glass Epoxy Laminate

Cryo G-10 is a specialized continuous filament woven fiberglass sheet bonded with low-temperature epoxy resin. The non-brominated material maintains excellent electrical, mechanical, and physical properties in cryogenic environments ranging from -270°C to 135°C. Cryo G-10 from The Gund Company is RoHS and REACH compliant to ensure reliability, safety, and consistency. The most common color is light green.

STANDARDS: NEMA LI-1 (IM 60000): Grade G-10 | MIL-I-24768/2 GEE

		ASTM/ISO		TYPICAL VALUES
PROPERTIES (HPL from B Stage)		Test Method	Units	CRYO G-10
PHYSICAL	Glass Content from LOI		%	70.5
	Density		gm/c.c.	2.00
	Outgassing: TML	ASTM E595	%	0.29
	Outgassing: CVCM	ASTM E595	%	0.01
	Outgassing: WVR	ASTM E595	%	0.10
THERMAL	Coefficient of Thermal Expansion: Perpendicular @ Room Temperature	ISO 11359-2	/°C·10 ⁻⁶	26.04
	Coefficient of Thermal Expansion: Parallel @ -196°C	ISO 11359-2	/°C·10 ⁻⁶	8.08
	Thermal Conductivity: Room Temperature	ISO 8302	W/m°C	0.235
	Thermal Conductivity: -196°C	ISO 8302	W/m°C	0.28
MECHANICAL	IZOD Impact Strength: Room Temperature	ISO 180	KJ/m ²	139
	Charpy Impact Strength: Room Temp	ISO 179	KJ/m ²	131
	Charpy Impact Strength: -196°C	ISO 179	KJ/m ²	148
	In-Plane Shear Strength: Room Temperature	ASTM D3846	KSI (MPa)	10.5 (73)
	In-Plane Shear Strength: -100°C	ASTM D3846	KSI (MPa)	20.5 (142)
	In-Plane Shear Strength: -196°C	ASTM D3846	KSI (MPa)	21 (148)
	Compressive Strength: Room Temperature	ASTM D695	KSI (MPa)	84 (583)
	Compressive Strength: -100°C	ASTM D695	KSI (MPa)	120 (826)
	Compressive Strength: -196°C	ASTM D695	KSI (MPa)	141 (974)
	Parallel Shear: Room Temp.	ASTM D3846	MPa	73.5
	Parallel Shear: -100°C	ASTM D3846	MPa	141.5
	Parallel Shear: -196°C	ASTM D3846	MPa	148
	Tensile Strength: Room Temperature	ISO 527-4	KSI (MPa)	78 (537)
	Tensile Strength: -100°C	ISO 527-4	KSI (MPa)	102 (708)
	Tensile Strength: -196°C	ISO 527-4	KSI (MPa)	109 (754)
Flexural Strength: Room Temperature	ISO 178	KSI (MPa)	82 (567)	
Flexural Strength: -100°C	ISO 178	KSI (MPa)	126 (870)	
Flexural Strength: -196°C	ISO 178	KSI (MPa)	156 (1,076)	

LAMINATE SHEET AVAILABILITY

SHEET SIZE

• 30" x 48" or 60" x 48" or 48" x 120"

THICKNESS

• 0.006" to 5.000"

LAMINATE SHEET AVAILABILITY (SI)

SHEET SIZE

• 76 cm x 122 cm or 122 cm x 152 cm or 122 cm x 305 cm

THICKNESS

• 0.15 mm to 127 mm

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.



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.