MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: NEMA G-11TM PTFE

Description: Glass Epoxy Grade G-11TM is a high-pressure laminate manufactured from a glass cloth substrate impregnated with a high temperature epoxy resin system. This grade meets or exceeds all specifications for NEMA G-11 material with the additional benefit of an increased temperature rating exceeding 180°C. Though standard NEMA G-11 materials meet only Class F thermal requirements, Glass Epoxy Grade G-11TM is a Class H material. Grade G-11TM PFTE has a thin layer of PTFE (Teflon™) laminated to the surface.

Availability:

		English units	SI Units
Laminate Sheets:	Thickness:	0.01” – 4”	.25mm – 102mm
	Sheet Sizes:	48” x 84”	122cm x 213cm
		48” x 96”	122cm x 244cm
		48” x 118”	122cm x 300cm

Fabricated Parts: The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.

Key Characteristics:	Test Method	Units - English (SI)	Typical Values
Standard Color			Green
Density	ISO 1183/A	lbs/in^3 (g/cc)	0.069 (2.0)
Water Absorption (1/8” thick)	ISO 62/1	%	0.5
Tensile Strength	ISO 527	psi (MPa)	34,800 (240)
Compressive Strength (flatwise)	ISO 604	psi (MPa)	50,760 (350)
Compressive Strength (edgewise)	ISO 604	psi (MPa)	83,00 (500)
Flexural Strength (23°C)	ISO 178	psi (MPa)	58,823 (400)
Flexural Strength (120°C)	ISO 178	psi (MPa)	46,650 (300)
Flexural Strength (150°C)	ISO 178	psi (MPa)	33,300 (22)
Heat Resistance	IEC 216	°C	180
Dielectric Strength (Perp. 23°C)	IEC 243	V/mil (kV/mm)	512 (20)
Dielectric Strength (Perp. 90°C)	IEC 243	V/mil (kV/mm)	330 (13)
Comparative Tracking Index	IEC 112	CTI	180

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