



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Paper Phenolic Laminate Grade EPG

Description: Grade EPG is a cellulose based quality laminate impregnated with thermosetting resins, consolidated under high pressure and temperature into dense, uniform sheets having good electrical and mechanical properties

Availability:	Laminate Sheets:	Thickness:	English Units 0.125" - 1.5"	SI Units 3.18 mm to 38 mm
		Sheet Sizes:	48" x 96" 60" x 120" 60" x 144"	122cm x 244cm 152 cm x 305 cm 152 cm x 366 cm
	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
Tensile Strength	ASTM D-638	psi (MPa)	30,000 (207)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	45,000 (310)
Flexural Strength	ASTM D-790	psi (MPa)	30,300 (209)
Izod Impact Strength, Edgewise	ASTM D-256	ft.-lbs./in.	1
Rockwell Hardness	--	M Scale	113
Density	--	lbs/in ³ (g/cc)	0.05 (1.38)
Shear Strength	ASTM D-732	psi (MPa)	14,000 (97)
Water Absorption (.125")	ASTM D-570	%	3.58
Bond Strength	ASTM D-229	psi (MPa)	2,000 (13.8)
Flammability Rating	UL 94	Class	HB
Relative Thermal Index			130
Arc Resistance (.125")	ASTM D-495	sec	41
Dielectric Constant @ 1.0 kHz (.125")	ASTM D-150		8.1
Dissipation Factor (1.25")	ASTM D-150		.151

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