



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

The Gund Company, Inc
St. Louis, Missouri – USA

TEL - 314.423.5200
FAX - 314.423.9009

MATERIAL DATA SHEET

Item: EMD-200 Glass Mat Polyester

Description: EMD-200 is a glass mat reinforced polyester material designed primarily for the fabrication of slot wedges in large motors and generators. EMD-200 is used in applications that demand a low weight loss, high flexural and shear strength at elevated temperatures.

Availability:	Molded Sheets:	Thickness:	English Units 0.032" to 1.0"	SI Units 0.8 mm to 25 mm
		Sheet Sizes:	36" x 72", 48" x 60", 48" x 96"	94 cm x 185 cm, 122 cm x 152 cm, 122 cm x 244 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
Standard Color	--	--	Black
Density	--	lbs./in (g/cc)	0.07 (1.94)
Water Absorption (.125")	ASTM D-570	%	0.19
Hardness, Barcol	--	--	67
Tensile Strength	ASTM D-638	psi (MPa)	16,500 (114)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	52,000 (359)
Flexural Strength, Room Temperature 130°C	ASTM D-790	psi (MPa)	33,000 (228) 24,500 (169)
IEEE Thermal Class	--	°C	180
Shear Strength	ASTM D-732	psi (MPa)	17,900 (123)
Weight Loss, 24 Hours at 250°C	--	%	5.4
Izod Impact Strength, Edgewise	ASTM D-256	ft.-lbs./in.	11
Arc Resistance	ASTM D-495	Seconds	180
Dielectric Strength, Short Time, In Oil	ASTM D-149	kV	50
Dielectric Strength, Short Time, In Air	ASTM D-149	V/mil (kV/mm)	400 (15.6)
Dielectric Constant, 60 Hz	ASTM D-149	--	5.3
Dissipation Factor, 60 Hz	ASTM D-150	--	0.015
Insulation Resistance	ASTM D-257	Ohm x 10 ¹⁵	10

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