



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: NEMA Grade GPO-1, Grade N155 Glass Polyester Laminate

Description: Grade N155 is a Class F (155°C) glass mat reinforced polyester material designed for applications where excellent compressive and flexural strength are combined with high temperature resistance.

Grade N155 has been designed for applications including electric motor slot topsticks, D.C. motor pole collars, hydro generator pole collars, rotating equipment slot filler, rotor pole blocking, lead and cable clamps, and related applications.

Standards: NEMA LI-1 GPO-1
IEC 60893 UPGM 201

Availability: Laminate Sheets: Thickness: English Units 0.031" to 2.0" SI Units 0.8 mm to 50.8 mm
Sheet Sizes: 37" x 73" 94 cm x 185 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	--	--	White
Density	--	lbs./in ³ (g/cc)	0.066 (1.83)
Water Absorption (.125")	ASTM D-570	%	0.25
Tensile Strength	ASTM D-638	psi (MPa)	11,000 (76)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	38,000 (262)
Flexural Strength, Lengthwise Crosswise	ASTM D-790	psi (MPa)	26,000 (179) 22,000 (152)
Izod Impact Strength, Edgewise	ASTM D-256	ft.-lbs./in.	8.5
Arc Resistance	ASTM D-495	Seconds	150
Dielectric Strength, Perp., In Oil (.0625")	ASTM D-149	V/mil (kV/mm)	450 (17.7)
Breakdown Voltage, Perp., In Oil	ASTM D-149	kV	30
Thermal Class	--	--	Class F - 155°C

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