



# THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	NEMA Grade GPO-1, Grade N155 Glass Polyester Laminate		
Description:	<p>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.</p> <p>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.</p>		
Standards:	NEMA LI-1: GPO-1		IEC 60893: UPGM 201
Availability:		English Units (in)	SI Units (mm/cm)
	Laminate Sheets:	Thickness:	0.031 - 2.000 0.118 - 1.500
		Sheet Size:	36 x 72 48 x 96
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specification and drawings of our customers.	

Key Characteristics	Test Method	Units - English (SI)	Typical Values
Standard Color	--	--	White
Density	--	lb/in (g/cc)	0.066 (1.83)
Water Absorption (0.125")	ASTM D-570	%	0.25
Tensile Strength	ASTM D-638	psi (MPa)	12,000 (83)
Compressive Strength, Flat-Wise	ASTM D-695	psi (MPa)	40,000 (276)
Flexural Strength	ASTM D-790	psi (MPa)	Length-Wise 26,000 (179)
			Cross-Wise 22,000 (152)
IZOD Impact Strength, Edge-Wise	ASTM D-256	ft-lbs/in	9.5
Arc Resistance	ASTM D495	Seconds	150
Dielectric Strength Perpendicular in Oil (0.062")	ASTM D-149	V/mil (kV/mm)	450 (17.7)
Breakdown Voltage Perpendicular in Oil	ASTM D-149	kV	30
Thermal Class	--	--	Class F - 155°C