



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

N155 - Class F - GPO-1

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:	Laminate Sheets:	Thickness:	English Units (in) 0.031 - 2.000 / 0.118 - 1.500	SI Units (mm/cm) 0.78 - 60 / 3 - 38.1 (mm)
		Sheet Size:	36 x 72 / 48 x 96	91.4 - 182.8 / 121.9 - 243.8 (cm)
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by 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, Flatwise	ASTM D-695	psi (MPa)	40,000 (276)
Flexural Strength	ASTM D-790	psi (MPa)	Lengthwise 26,000 (179)
			Crosswise 22,000 (152)
IZOD Impact Strength, Edgewise	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 Parallel in Oil	ASTM D-149	kV	30
Thermal Class	--	--	Class F - 155°C

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.