



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Grade N200F - Flexible Glass Polyester Laminate		
Description:	<p>Grade N200F - Flexible Glass Polyester Laminate is a flexible, high-temperature, glass-mat, reinforced polyester (190 °C at 1/32", 200 °C at 1/16") designed for applications where high flexibility and excellent dielectric strength are necessary.</p> <p>Grade N200F has been designed for applications as a cost effective alternative to aramid paper in 220 °C insulation systems, including layer and core insulation for dry-type transformers. Test data has shown that N200F can be used in any application having at least a bend radius of 2" (5 cm) without having significant negative effects on dielectric properties.</p>		
Standards:	NEMA LI-1: GPO-1	IEC 60893: UPGM 201	
Availability:		English Units (in)	SI Units (mm/cm)
	Laminate Sheets:	Thickness:	0.020 to 0.125 (mm)
		Sheet Size:	37 x 73 & 49 x 97 (cm)
Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact drawings and specifications of our customers.		

Key Characteristics	Test Method	Units - English (SI)	Typical Values
Standard Color	--	--	Natural/Taupe
Density	--	lbs/in (g/cc)	0.057 (1.57)
Water Absorption (.125")	ASTM D-570	%	0.31
Tensile Strength	ASTM D-638	psi (MPa)	120
Compressive Strength (Flatwise)	ASTM D-695	psi (MPa)	18.0 (124)
Flexural Strength	ASTM D-790	psi (MPa)	Lengthwise 20 (138)
			Crosswise 23 (159)
Thermal Class	UL 746E	°C	200*
Arc Resistance	ASTM D-495	Seconds	120
Dielectric Strength (⊥0.0652" in Oil)	ASTM D149 (short)	V/mil (kV/mm)	625

*190 °C is the typical value for materials that are 1/16" and thinner