

THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

ltem:	Class R GPO-1 (N220 from The Gund Company)					
Description:	N220 is a specialty grade random glass mat, polyester resin, insulating material for high temperature NEMA GPO-1 applications. This material has a relative temperature index of 220°C (electrical) and 210°C (mechanical). It has excellent retention of physical and electrical properties at elevated temperatures.					
Standards:	NEMA LI-1: GPO-1 - IEC 60893: UPGM 201					
Availability:	Laminate Sheets:		English Units (in)	SI Units (mm)		
		Sheet Size:	36 x 72 48 x 96	914 x 1828 1219 x 2438		
		Thickness:	0.031 - 2.000 0.118 - 1.500	0.78 - 50.8 3 - 38.1		
	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			Natural Beige
Density		lbs./in (g/cc)	0.061 (1.7)
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)	32,000 (220)
Flexural Strength, Lengthwise	ASTM D-790	psi (MPa)	21,000 (145)
Bond Strength (.50″)	ASTM D-229	lbs. (kg)	1,080 (490)
Shear Strength	ASTM D-732	psi (MPa)	12,000 (83)
IZOD Impact Strength, Edgewise	ASTM D-256	ftlbs./in.	11.0
Arc Resistance	ASTM D-495	Seconds	180
Dielectric Strength Perpendicular in Oil (.0625")	ASTM D-149	V/mil (kV/mm)	550 (21.7)
Breakdown Voltage Parallel Pin, in Oil	ASTM D-149	kV	50
Relative Temperature Index	UL746E	°C	220 Electrical 210 Mechanical
UL File Number			E323105

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 use contemplated, 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. TGCR1015