C-209 Semi-Conductive

Item:	Grade C-209: Semi-Conductive Glass Reinforced Laminate					
Description:	C-209 is a semi-conductive glass reinforced laminate that is utilized as side-pack, side insulation in the stator slots of large rotating apparatus. As a semi-conductive material, C-209 provides a pathway to dissipate partial discharge, static charges and flashovers to prevent the damaging effects of corona discharge.					
Availability:	Laminate Sheets:		English Units (in)	SI Units (mm)		
		Thickness:	0.008 to 0.787	0.2 to 20		
		Sheet Size:	42 x 84 / 48 x 84 / 48 x 110	1070 x 2140 / 1240 x 2140 / 1240 x 2800		
	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				Black
Density			lbs/in³ (g/cc)	0.065 (1.8)
Water Absorption (0.125")		ASTM D-570	%	0.58
Tensile Strength		ASTM D-638	psi (MPa)	35,000 (214)
Compressive Strength		ASTM D-695	psi (MPa)	58,000 (400)
Flexural Strength	Lengthwise	ACTNA D. 700	psi (MPa)	57,000 (393)
	Crosswise	ASTM D-790		80,000 (550)
Shear Strength		ASTM D-732	psi (MPa)	21,000 (144)
Relative Temperature Index ¹		UL 746B	°C	180
IZOD Impact Strength, Notched	Lengthwise	ACTNA D. OFC	ft-lbs/in	13
	Crosswise	ASTM D-256		8.5
Bond Strength		ASTM D-229	lb (kg)	920 (417)
Surface Resistivity		ASTM D-257	Ohms/Square	500-50,000

¹Flexural Strength tested for determining mechanical RTI

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.