



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Grade C-109: Semi-Conductive Glass Reinforced Laminate		
Description:	C-109 is a semi-conductive glass reinforced laminate that is typically utilized as middle or bottom filler insulation in the stator slots of large rotating apparatus. As a semi-conductive material, C-109 provides a pathway to dissipate partial discharge, static charges and flashovers to prevent the damaging effects of corona discharge.		
Availability:		English Units (in)	SI Units (mm)
	Thickness:	0.020 to 0.5	0.5 to 9.52
	Sheet Size:	36 x 72	914 x 1828
	Fabricated Parts:	The Gund Company custom fabricates insulation material to the exact specifications and drawings of our customers	

Key Characteristics	Test Method	Units - English (SI)	Typical Values
			C-109
Standard Color	--	--	Black
Density	--	lb/in ³ (g/cc)	0.054 (1.6)
Water Absorption (0.125")	ASTM D-570	%	0.5
Tensile Strength	ASTM D-638	psi (MPa)	16,500 (114)
Compressive Strength	ASTM D-695	psi (MPa)	42,000 (290)
Flexural Strength	ASTM D-790	psi (MPa)	Length-Wise 30,000 (207)
			Cross-Wise 33,000 (228)
Shear Strength	ASTM D-732	psi (MPa)	17,000 (117)
Relative Temperature Index ¹	UL 746E	°C	180
IZOD Impact Strength, Notched	ASTM D-256	ft-lbs/in	14
Bond Strength	ASTM D-229	lb (kg)	850 (386)
Surface Resistivity	ASTM D-257	Ohms/Square	500-50,000

¹ Flexural Strength tested for determining mechanical RTI