



MANUFACTURERS OF  
**ELECTRICAL INSULATION MATERIALS**  
 INSULATING COMPONENTS FOR  
**POWER SYSTEMS EQUIPMENT**

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## MATERIAL DATA SHEET

**Item:** Semi-Conductive Glass Phenolic Laminate, Grade G-3S C

**Description:** Grade G-3S is a woven glass fabric with high temperature semi-conductive phenolic resin with carbon graphite additive for corona disipation in generator stator slot filler applications

**Standards:** NEMALI-1 NA  
 IEC60893 NA  
 MIL-I-24768 NA

**Availability:** Laminate Sheets: Thickness: English Units .015" to .500" SI Units 0.38mm–12.7mm  
 Sheet Sizes: 36"x48", 36"x72" 91.4cm x 122cm, 91.4cm x 182.8cm

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		Black	Black
Rockwell Hardness (.062")	ASTM D785-89	M Scale	110
Moisture Absorption (.062")	ASTM D570	%	NA
Surface Resistivity		(ohms/square)	200–20,000
Compressive Strength, Flatwise	ASTM D695	psi (MPa)	48,000 (330)
Flexural Strength (0.125") -Lengthwise -Crosswise	ASTM D790	psi (MPa)	34,000 (234) 25,000 (172)
Bonding Strength (.500")	ASTM D229	Lb (kg)	1,100 (498)

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