

Item:	NEMA Grade G-11, Class H EPGC 308 Glass Epoxy Laminate			
Description:	NEMA Grade G-11 materials are continuous filament woven fiberglass sheets bonded with high temperature epoxy resin. The material has the ability to maintain excellent mechanical, electrical, and physical properties at elevated temperature to 180°C. It is RoHS and REACH compliant to ensure reliability, safety, and consistency.			
Standards:	NEMA LI-1 Grade G-11 IEC 60893 EP GC 308, EPGC203			
Availability:	Laminate Sheets:	Thickness:	English Units 0.010" to 5.0"	SI Units 0.25 mm to 127 mm
		Standard Sheet Sizes:	48" x 96" 48" x 120"	122 cm x 244cm 122cm x 305cm
	Convolute Tubing:	Available in nearly any custom size of inside and outside diameter per customer requirements		
	Fabricated Parts:	Custom fabricate insulation materials to the exact specifications and drawings of customers		

Key Characteristics	Units - English (SI)	Typical Values
Standard Color		Green
Specific Gravity	lb/in ³ (g/cc)	0.069 (1.9)

NEMA LI-1 G-11 Required Properties

Key Characteristics	Test Method	Units	NEMA Required	Typical Values
Breakdown Voltage (0.062") 48/50	Condition A		45.0 min	>50
	Condition D-	ASTM D-149	KV	40.0 min
Permittivity @ 1MHz (0.125") D24/30	Condition A		5.20 max	4.60
	Condition	ASTM D-150	unitless	5.40 max
Dissipation Factor @ 1 MHz (0.125") D24/3	Condition A		0.025 max	0.0104
	Condition	ASTM D-150	unitless	0.035 max
IZOD Impact Strength(0.125) LW E48/50 CW E48/50			7.0 min	11
		ASTM D-256	ft.-lb/in Notched	5.5 min