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TECHNICAL DATA

G-11/F (B48) - Epoxy Glass Fabric Laminates DESCRIPTION Epoxy glass fabric rigid laminate manufactured in accordance with BS EN 60893-3-2 EPGC 203. The closest NEMA equivalent is G-11. G-11/F laminates offer high mechanical strength, allowing further processing via machining, punching or sawing to produce complex components. G-11/F laminates also offer excellent dielectricn properties and a Class F (155°C) thermal rating. APPLICATIONS

ightarrow High voltage insulation	\rightarrow Motor slot wedging	\rightarrow Phase barriers
\rightarrow Transformer spacers	\rightarrow Precision machined parts	\rightarrow Electromagnet coil insulation
ightarrow Terminal boards & tag strips	\rightarrow Cryogenic components	\rightarrow Chemical resistant components

TECHNICAL DATA

PHYSICAL PROPERTIES		
Specification	BS EN 60893-3-2-EPGC 203 (supersedes BS 3953 EP7)	
	NEMA G-11	
Body colour	Green/Brown	
Cover colour	Green/Brown	
Standard finish	Satin/glossy	
Standard thicknesses	0.40 - 100mm (Others on request)	
Standard sheet size	1220mm x 1220mm (Others on request)	
Density	1.90 g/cm ³	
Water absorption	8 mg	
ELECTRICAL PROPERTIES		
IR, 24 hours water immersed	17,000 GΩ	
Electric strength, flat rapid	28 MV/m	
Electric strength, flat step by step	17 MV/m	
Breakdown voltage, edge step by step	82 kV	
Relative permittivity @ 1MHz	4.8	
Dissipation factor @ 1 MHz	0.02	
Tracking index	220 V	
MECHANICAL PROPERTIES		
Flexural strength	468 Mpa	
Tensile strength	220 Мра	
Impact, notched CHARPY	50 kJ/m ²	
THERMAL PROPERTIES		
Thermal rating continuous	155°C	
Thermal rating intermittent	165°C	

MACHINING, TUBES & RODS

G-11/F can be machined to customer requirements.

G-11/F is also available in tube & rod format.

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