

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 dielectric properties and a Class F (155°C) thermal rating.

APPLICATIONS

- High voltage insulation
- Transformer spacers
- Terminal boards & tag strips
- Motor slot wedging
- Precision machined parts
- Cryogenic components
- Phase barriers
- Electromagnet coil insulation
- 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 Mpa
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.