



EPOXY GLASS FABRIC LAMINATED SHEET / WASHERS

G10/FR4 High-Tg | Alkali-free

FEATURES

G10 Epoxy glass fabric laminated sheet is composed of alkali-free E-glass fabric impregnated with epoxy resins binder by processing under heat and pressure. It has extremely high mechanical strength, good electric strength properties and dielectric loss properties at elevated temperatures.

Excellent mechanical and electrical properties offering a Class F insulation continuous operating temperature. Suitable for applications in high temperature, cryogenic and radiation environments.

TECHNICAL INFORMATION

PHYSICAL PROPERTIES		
Construction	Glass Reinforced Epoxy	
Colour	Green/Yellow	
Temperature	+180°C (short term)	+155°C (continuous)
Rockwell Hardness	110 M scale	
Water Absorption - 125°	0.12%	
Density	1.95 g/cm ³	
Bond Strength	2200 Lbs	
Flexural Strength	LWA - 125" : 457 MPa	LWE -1/150 : N/A
Izod Impact Strength	LW : 7ft-lbs/in	CW : N/A
Compressive Strength - Flatwise	60000Psi	
MSDS	Available upon request	
ELECTRICAL DATA		
Dielectric Breakdown - A	A : 45 kV	D48/50 : 45 kV
Permittivity	A : 4.5	D24/23 : 4.8
Dissipation Factor	A : 0.022	D24/23 : 0.031

AVAILABLE SIZES

Washers are available to suit all standard metric and imperial bolt sizes. Refer to our sizing charts for specific details on each size



APPLICATIONS

G10 is applicable as insulation structural components for mechanical and electrical industries. Also for static applications in which flange or joints require isolation from dissimilar metals and subsequent galvanic corrosion.

- > Electrical equipment
- > Solder frames
- > Aerospace
- > Radar bases
- > Terminal boards
- > Antenna insulators
- > Underwater conditions
- > Test boards
- > Cryogenic insulation
- > Computer applications
- > Medical
- > Printed circuits