



INDUSTRIAL GASKETS

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DATA SHEET

EPOXY GLASS FABRIC LAMINATED SHEET (G10/FR4)

DESCRIPTION

G10/FR4 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 high mechanical strength, good electric strength properties and dielectric loss properties under both dry and humid conditions. G10/FR4 also has low water absorption rates.

APPLICATIONS

G10/FR4 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.

SIZES/AVAILABILITY

Size: To suit all metric and imperial bolt sizes

PHYSICAL PROPERTIES

Construction	Glass Reinforced Epoxy
Temperature	140 ± °C
Rockwell Hardness	110 M scale
Water Absorption – 125"	0.12%
Colour	Green, Yellow
Density	1.9 g/cm ³
Bond Strength	2200 Lbs
Flexural Strength – LWA – 125"	457 MPa
Flexural Strength – LWE – 1/150	N/A
Izod Impact Strength – LW	7 ft-lbs/in
Izod Impact Strength – CW	N/A
Compressive Strength – Flatwise	60000 Psi
Flammability	FV0
MSDS	Available upon request

ELECTRICAL DATA

Dielectric Breakdown – A	45 kV
Dielectric Breakdown – D48/50	45 kV
Permittivity – A	4.5
Permittivity – D24/23	4.8
Dissipation Factor – A	0.022
Dissipation Factor – D24/23	0.031

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