



Epoxy Glass G10

RIGID INSULATION FOR THERMAL AND ELECTRICAL APPLICATIONS

Laminated under high pressure and temperature, Insulect Epoxy Glass Laminate G10 is a general purpose material that offers good electrical and mechanical properties from cryogenic (-50°C) to elevated temperatures (up to 155°C).

Coupled with this is its excellent machinability, flame resistance, moisture and chemical resistant properties.

Features

- Suited to electro-mechanical applications
- Excellent machinability
- Very low moisture absorption

Applications

- Insulating components in electrical equipment such as motors, generators, transformers and switchgear
- Suited to corrosive environments
- Motor/generator slot wedges and packers
- High frequency applications
- Suited to underwater conditions

Technical Information

Material: Woven glass cloth impregnated and bonded with an epoxy thermosetting resin

Colour: Green



Sizing and Machining

SHEET Size: 1,020mm x 2,040mm

Nominal Thickness: 0.2mm to 150.0mm

ROD Length: up to 1,000mm

Diameter: 5.0mm to 100.0mm

TUBE Length: up to 1,000mm

Outer Diameter: 12.5mm to 190.0mm

Inner Diameter: 6.35mm to 155.0mm

Washers, Nuts, Bushes: Assorted sizes available

We provide a full machining and fabrication service, delivering everything from cut-to-order sheets to complex fully-finished components. Available for short-run or volume-based orders.

V2019.1



Quality
ISO 9001

Insulect Australia | Customer Service

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The information in this document is believed to be correct at the time of publication. The user is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. No reliance may be placed on any such information or data without first contacting Insulect Australia to clarify individual user requirements.

Technical Information

Technical Data	Norm	Units	Value
Mechanical			
Density		g/cm ³	1.7 ~ 1.9
Flexural Strength (perpendicular to laminations)		MPa	340
Impact Strength (charpy) (parallel to laminations)		MPa	33
Flammability, vertical		Class	-
Insulating Resistance	After 24hr in water	MΩ	≥5.0x10 ²
Dissipation Factor, 48-62Hz		-	≤0.04
Dissipation Factor, 1MHz		-	≤0.04
Breakdown Voltage, parallel to laminations, in transformer oil at 90±2°C for 1 min		kV	40
Dielectric strength, perpendicular to laminations, in transformer oil at 90±2°C		MV/m	14.2
Permittivity, 48-62Hz			≤5.5
Permittivity, 1MHz			≤5.5
Water Absorption	D-24/23 1.6mm thick	mg	19

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