Carbex inside

GLASS WOVEN EPOXY G10

Glassfiber woven epoxy sheet G10 is a glassfiber laminate consisting of a woven fiberglass fabric impregnated with an epoxy resin binder for applications up to 130°C with very good thermal, mechanical and electrical properties. Excellent for applications where high mechanical strength is sought.

- ***Compliant with: EPGC201***
- ***Good thermal properties***
- ***Very good electrical properties***
- ***Very good mechanical properties***
- ***Classified flame resistant***

REACH RoHS Compliance

PRODUCT INFORMATION

Glassfiber woven epoxy sheet G10, is a glassfiber laminate consisting of a woven fiberglass fabric impregnated with an epoxy resin binder for applications up to 130°C with very good thermal, mechanical and electrical properties. Excellent machinability for applications where high mechanical strength is sought.

Typical applications

Glasfiber Epoxy G10 is suitable for a broad range of applications within the electrical and mechanical fields such as spacers, mechanical barriers, electrical insulation components/spacers, etc

Properties

- Very low moisture absorption
- Heat resistance up to 130°C without major impact on the mechanical properties
- Resistant against most impregnation varnishes
- Good dielectric properties

Composition

- Layers of woven fiberglass fabric impregnated with epoxy resin binder. Compressed and cured under high pressure and temperature to comply with defined industry standards.

Colour

- Light yellow and brown hue

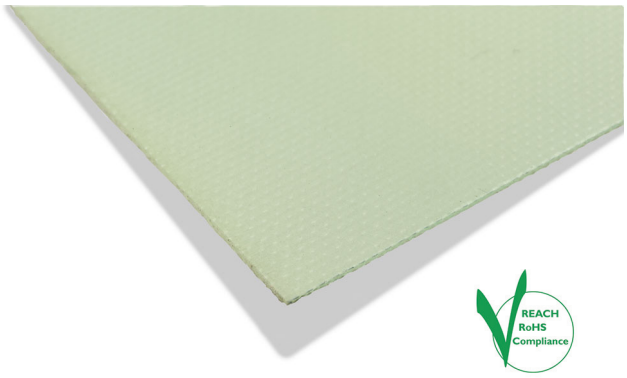
Dimensions

- Sheets in dimensions (nominal) 1050 x 1025mm, 1040 x 1570mm, 1065 x 1300mm, 1050 x 2050mm
- Thickness range 0.5 – 50 mm
- We deliver machined G10 according to specification on request
- All dimensions non stock order items

Packaging

- Sold individually

GLASS WOVEN EPOXY G10



Epoxy G10 compliant with norms: EPGC 201

Properties

Mechanical	***Value***	***Unit***
Density	1,9	g/cm³
Flexural strength perpendicular at +20°C	340	N/mm²
Flexural modulus of elasticity	24000	N/mm²
Compressive strength perpendicular	350	N/mm²
Tensile strength	300	N/mm²
Impact strength parallel to laminations	33	kJ/m²
Water absorption (thickness 3mm)	22	mg
Thermal		
Temperature endurance (Temperature index)	130	T.I
Electrical		
Dielectric strength at 90°C in oil perpendicular (for 3 mm)	30	kV
Dielectric strength at 90°C in oil parallel	35	kV/25mm
Creep voltage strength	200	CTI
Insulation resistance after immersion in water	$5x10^4$	MΩ
Dielectric constant at 1 Mhz	5,5	-
Dissipation factor (tan d) at 50Hz, 1 MHz	0,04	-