# 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.

## 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
- Classified flame resistant

## 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):

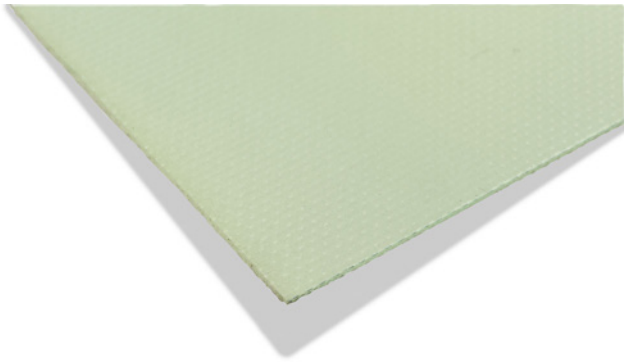
- 1050 x 1025 mm
- 1040 x 1570 mm
- 1065 x 1300 mm
- 1050 x 2050 mm

- Thickness range 0.5 – 50 mm

We deliver machined G10 according to specification on request. All dimensions non stock order items.

## Packaging

Sold individually



## Technical data

Epoxy G10 compliant with norm EPGC 201.

| Properties | Value | Unit |
|---|---|---|
| **Mechanical** | | |
| Density | 1.9 | $g/cm^3$ |
| Flexural strength perpendicular at +20°C | 340 | $N/mm^2$ |
| Flexural modulus of elasticity | 24000 | $N/mm^2$ |
| Compressive strength perpendicular | 350 | $N/mm^2$ |
| Tensile strength | 300 | $N/mm^2$ |
| Impact strength parallel to laminations | 33 | $kJ/m^2$ |
| Water absorption (thickness 3 mm) | 22 | mg |
| **Thermal** | | |
| Thermal 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 50 Hz, 1 MHz | 0.04 | - |



**How to contact BEVI**

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