

Slot wedges, trapezoid of G11 epoxy glass fiber are made cloth and epoxy resin which gives them very good thermal, mechanical and electrical properties.

The slot wedges are used for applications up to 180°C.



Slot wedges, trapezoid G11 epoxy glass fiber

Typical applications

Suitable for use in the electrical industry as slot wedges in electric motors.

Properties

- Very low moisture absorption.
- High heat resistance up to 180°C with good mechanical properties retained.
- Resistant against most impregnation varnishes.
- Very good dielectric and electrical properties.

Composition

Several layers of glass fiber cloth as a basis and epoxy resin as a binder. The layers are subsequently pressed at high temperature in accordance with defined industry standards.

Colour

Green

Norms

Epoxy G11 is compliant with:

- EN 60893 - EPGC 203,
- NEMA - G11
- DIN 7735 - Hgw2375.4

Packaging

- Bundles of 50 meter (50 pcs. at 1 m/pc.)

Technical data

- For slot wedge thicknesses 0.2 – 100 mm
- Thermal longterm stability test T.I. 155°C
- For applications up to (180°C).

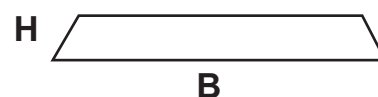
Technical data

Properties slot wedges, trapezoid G11		
Mechanical properties		
Density	1.7–1.9	g/cm ³
Flexural strength perpendicular at +20°C	350	N/mm ²
Flexural strength perpendicular at +155°C	175	N/mm ²
Flexural modulus of elasticity	24000	N/mm ²
Compressive strength perpendicular	350	N/mm ²
Tensile strength	>250	N/mm ²
Impact strength parallel to laminations	>33	kJ/m ²
Water absorption (thickness 3 mm)	22	mg
Thermal properties		
Thermal endurance (Temperature Index)	155	T.I.
Good mechanical properties up to	180	°C
Electrical properties		
Dielectric strength at 90°C in oil perpendicular to laminations (thickness 3 mm)	11.5	kV/mm
Dielectric strength at 90°C in oil parallel to laminations	35	kV/25 mm
Creep voltage strength	180	CTI
Insulation resistance after immersion in water	>5×10 ⁸	Ω
Dielectric constant at 1 MHz	5.5	-
Dissipation factor (tan d) at 50 Hz, 1 MHz	0.04	-



Items and dimensions

Item number	Description	Dimensions, B × H × L (mm)
125408	Slot wedges, trapezoid G11, 4 × 2	4.0 × 2.0 × 1000
125412	Slot wedges, trapezoid G11, 5 × 2	5.0 × 2.0 × 1000
125411	Slot wedges, trapezoid G11, 8 × 2.5	8.0 × 2.5 × 1000
125410	Slot wedges, trapezoid G11, 9 × 2.5	9.0 × 2.5 × 1000
125407	Slot wedges, trapezoid G11, 10 × 2.5	10.0 × 2.5 × 1000
125413	Slot wedges, trapezoid G11, 11 × 2.5	11.0 × 2.5 × 1000
125409	Slot wedges, trapezoid G11, 12 × 2.5	12.0 × 2.5 × 1000
125405	Slot wedges, trapezoid G11, 13 × 2.5	13.0 × 2.5 × 1000
125406	Slot wedges, trapezoid G11, 14 × 2.5	14.0 × 2.5 × 1000
125414	Slot wedges, trapezoid G11, 16 × 2.5	16.0 × 2.5 × 1000



How to contact BEVI

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