



SLOT RODS G11 Epoxy Glass, corrugated

G11 Epoxy Glass fiber, corrugated, is a slot rod consisting of an Epoxy base for applications up to 180°C with very good thermal, mechanical and electrical properties

- Compliant with NEMA - G11, DIN 7735 - Hgw2372.4, EN60893/IEC893 – EPGC203, EPGC308
- Very good thermal properties
- Very good electrical properties
- Very good mechanical properties

PRODUCT INFORMATION

G11 Epoxy Glass fiber, corrugated, is a slot rod consisting of an Epoxy base for applications up to 180°C with very good thermal, mechanical and electrical properties

Typical applications

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

Properties

- Very low moisture absorption
- High heat resistance up to 180°C without major impact on the good mechanical properties
- Resistant against most impregnation varnishes
- Very good dielectric 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 industrial standards.

Colour

- Green

Packaging

- Bundles of 50 metres
- Length 1000 mm

Technical data

- For slot rods, thicknesses 0.2 - 100 mm Thermal long-term Stability test T.I. 155°C, for applications up to (180°C)
- Epoxy G11 compliant with norms: EN 60893 - EPGC 203, NEMA - G11, DIN 7735 - Hgw2372.4

Product information for which Carbex bears no responsibility is provided by the manufacturer.

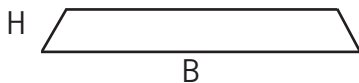




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Properties

Mechanical	Value	Unit
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 3mm)	22	mg
Thermal		
Thermal endurance (Temperature Index)	155	T.I
Good mechanical properties up to	180	°C
Electrical		
Dielectric strength at 90°C in oil perpendicular to laminations (thickness 3mm)	11.5	kV/mm
Dielectric strength at 90°C in oil parallel to laminations	35	kV/25mm
Creep voltage strength	180	CTI
Insulation resistance after immersion in water	>5x10 ⁸	Ω
Dielectric constant at 1 MHz	5.5	-
Dissipation factor (tan d) at 50Hz, 1 MHz	0.04	-



ITEM NUMBER	DIMENSIONS B X H mm
03 031 2517	4.0 x 2.0 x 1000
03 031 2521	5.0 x 2.0 x 1000
03 031 2520	8.0 x 2.5 x 1000
03 031 2519	9.0 x 2.5 x 1000
03 031 2516	10.0 x 2.5 x 1000
03 031 2522	11.0 x 2.5 x 1000
03 031 2518	12.0 x 2.5 x 1000
03 031 2513	13.0 x 2.5 x 1000
03 031 2515	14.0 x 2.5 x 1000
03 031 2523	16.0 x 3.0 x 1000

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