

Laminate



VETRONITE G11 KC 600 ATH

- High pressure laminate with excellent mechanical properties even at high temperatures
- Good electrical properties
- High comparative tracking index
- G-11 type, temperature class H
- Defined burning rate acc. to UL94, class V-0

Description

Vetronite G11 KC 600 ATH is an insulating laminate made of fine weave glass fabric bonded with special epoxy resin. It has a temperature index of 180°C.

Specifications

IEC/DIN EN 60893	EP GC 203/308
DIN 7735	HGW 2372.4 (*)
BS 3953	EP-5 (*)
NFC 26-151	Vt-EM 2 (*)
NEMA LI-1	G-11
(*) no longer valid	

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (RoHS-directive), annex II and amendment 2015/863/EU are not used as ingredients in this material.

Color

Light brown red

Applications

Electrical insulation
High temperature resistant machine parts
Chemical engineering
Aeronautics and aerospace

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	460	ISO 178
E-modulus	MPa	23000	ISO 178
Flexural strength at 150°C / 1h	MPa	315	ISO 178
Notched impact strength (Charpy), //	kJ/m ²	65	ISO 179
Compressive strength // at 23°C	MPa	330	ISO 604
Compressive strength ⊥ at 23°C	MPa	565	ISO 604
Tensile strength	MPa	300	ISO 527
Electrical properties			
Insulation resistance after immersion in water	Ohm	1.00E+12	IEC 62631-3-3
Breakdown voltage // 90°C in oil	kV	70	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	20	IEC 60243-1
Relative permittivity at 1 MHz		5.5	IEC 62631-2-1
Dissipation factor at 1 MHz		0.013	IEC 62631-2-1
Comparative tracking index CTI		600	IEC 60112
Thermal properties			
Temperature index (TI)	°C	180	IEC 60216
Physical properties			
Density	g/cm ³	1.90	ISO 1183
Water absorption	mg/%	8.6/0.02	ISO 62

Form of delivery

Sheet formats 1170 x 1070 mm, 2070 x 1070 mm (up to 40 mm thick)
Size tolerance 0 / - 30 mm

Thickness range 0.2 to 150 mm
Thickness tol. acc. to DIN EN 60893-3-2

Also available as panels or machined parts.
Other dimensions and thicknesses on request.

Machining

Machining with carbide or diamond tools.
For water jet cutting we recommend adding silica sand to the water and drill through-holes prior to machine.

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

VRI Composites custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

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