

Laminate



CANEVASITE FF-E HW

- High pressure laminate suitable mechanical and electrical stresses
- Electrical insulation grade for small components

Description

Canevasite FF-E HW is a fine cotton fabric laminate bonded with special phenolic resin.

Specifications

IEC/DIN EN 60893 PF CC 204
DIN 7735 HGW 2083.5 (*)
BS 1572 F5
NEMA LE

(*) no longer valid since March 2003

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

Yellow

Applications

Electrical insulation in machines
Electrical insulation at low voltage
Insulation discs
Spacers

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	145	ISO 178
E-modulus	MPa	7600	ISO 178
Compressive strength // at 23°C	MPa	175	ISO 604
Compressive strength ⊥ at 23°C	MPa	310	ISO 604
Notched impact strength // (Charpy)	kJ/m²	9	ISO 179
Electrical properties			
Insulation resistance after immersion in water	Ohm	1.0E+8	IEC 62631-3-3
Breakdown voltage // 90°C in oil	kV	20	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	4	IEC 60243-1
Thermal properties			
Temperature index (TI)	TI	120	IEC 60216
Thermal conductivity	W/m·K	0.2	ISO 8301
Linear expansion coefficient //	1.0E-6/K	18	ISO 11359-2
Physical properties			
Density	g/cm³	1.35	ISO 1183
Water absorption (24h, 23°C)	mg/%	120/0.9	ISO 62

Form of delivery

Sheet formats 2000 x 1000, 1000 x 1000
Size tolerance + 70 / - 0 mm

Thickness range 0.2 to 300 mm

Thickness tol. acc. to DIN EN 60893-3-4

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

Processing

Machining with carbide and diamond tools.

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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