

Laminate



VETROTHERM S

- Superior mechanical properties at high temperatures
- Low thermal conductivity
- Low water absorption
- Excellent parallelism
- Very good electrical properties
- Good hydrocarbon stability
- Good chemical stability
- Long life expectancy
- Easy to machine

	Unit	Value	Test norm
Mechanical properties			
Flexural strength at RT	ksi	26	ISO 178
Flexural strength at 400°F	ksi	15	ISO 178
Compressive strength \perp , at RT	ksi	65	ISO 604
Compressive strength \perp , at 400°F	ksi	55	ISO 604
Compressive strength \perp , at 480°F	ksi	51	ISO 604
Electrical properties			
Electric strength \perp , at 194°F in oil	V/mil	203	IEC 60243-1
Thermal properties			
Max. heat resistance (for short periods)	°F	660	
Heat resistance	°F	530	
Thermal conductivity	BTU·in/ft ² ·h·°F	1.5	ISO 8301
Linear expansion coefficient //	1.0E-6/°F	6	ISO 11359-2
Physical properties			
Density	lb/in ³	0.065 ± 0.004	ISO 1183
Water absorption	%	0.1	ISO 62

Description

Vetrotherm S is a laminate based on a high temperature resistant silicone resin and a glass fabric. Vetrotherm S is very well suited as heat insulating material that needs to withstand high to very high temperatures at moderate mechanical stresses.

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.

Applications

Insulation of presses, thermal machined insulator parts, insulation of die casting machines and presses, glass industry, cast rubber moulds.

Form of delivery

Sheet formats:

81.5" x 42"
46.0" x 42"
169" x 51"

Thickness range 0.2" to 1.2"

Thickness tolerance acc. to EN 60893-3-2 or NEMA

Sanded:

Standard: ± 0.004" (< 0.2"), above ± 1%
SuperFinish: ± 0.001 mm (on request)

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

Machining

Machining with carbide or 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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