Laminate

VETROTHERM

- **Excellent mechanical and electrical properties**
- **Low thermal conductivity**
- **Low water absorption**
- **Excellent parallelism**
- **Good hydrocarbon stability**
- **Good chemical stability**
- **Long life expectancy**
- **Easy to machine**

	Unit	Value	Test norm
Mechanical properties			
Flexural strength at RT	ksi	106	ISO 178
Flexural strength at 400°F	ksi	54	ISO 178
Compressive strength ⊥, at RT	ksi	109	ISO 604
Compressive strength ⊥, at 400°C	ksi	84	ISO 604
Compressive strength ⊥, at 480°C	ksi	60	ISO 604
Electrical properties			
Electric strength ⊥, at 194°F in oil	V/mil	25	IEC 60243-1
Thermal properties			
Max. heat resistance (for short periods)	°F	530	
Heat resistance (continuous)	°F	480	
Thermal conductivity	BTU*in/ft^2·h·°F	1.7	ISO 8301
Linear expansion coefficient //	1.0E-6/°F	6	ISO 11359-2
Physical properties			
Density	lb/in^3	0.072 ± 0.004	ISO 1183
Water absorption	%	0.05	ISO 62

Description
Vetrotherm is a laminate based on a high temperature resistant epoxy resin and a glass roving fabric. Vetrotherm is very well suited as heat insulating material that needs to withstand high to very high 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 1.6”
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.

VRIR 04/2026

VRI Composites Deutschland GmbH
www.vri-composites.com