

# Laminate



## VETROTHERM LIGHT

- Very low density
- Low thermal conductivity
- Low water absorption
- Excellent parallelism
- Good hydrocarbon stability
- Good chemical stability
- Long life expectancy
- Easy to machine

	Unit	Value	Test norm
<b>Mechanical properties</b>			
Flexural strength at RT	ksi	19	ISO 178
Compressive strength $\perp$ at RT	ksi	44	ISO 604
Compressive strength $\perp$ at 300°F	ksi	16	ISO 604
<b>Electrical properties</b>			
Electric strength $\perp$ at 194°F in oil	V/mil	330	IEC 60243-1
<b>Thermal properties</b>			
Max. heat resistance (for short periods)	°F	450	
Heat resistance	°F	400	
Thermal conductivity	BTU·in/ft <sup>2</sup> ·h·°F	1.1	ISO 8301
Linear expansion coefficient //	1.0E-6/°F	12	ISO 11359-2
<b>Physical properties</b>			
Density	lb/in <sup>3</sup>	0.045 ± 0.004	ISO 1183
Water absorption	%	0.5	ISO 62

### Description

Vetrotherm Light consists of a special temperature-resistant polyester resin with a reinforcement of chopped glass fibers. It contains a certain filler that reduces the density and the thermal conductivity significantly. This material is especially made for thermal insulation applications.

### Applications

Insulation of presses  
Thermal insulating machine parts  
Insulation of die casting machines and presses, glass industry, cast rubber moulds

### Color

Black

### 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.

### Form of delivery

Sheet format 79.5" x 49" + 0 / - 0.1"

Thickness range 0.2" to 1.4" mm

Thickness tolerance acc. to EN 60893-3-5 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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VRI Composites Deutschland GmbH  
[www.vri-composites.com](http://www.vri-composites.com)

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