

Laminate



PAMITHERM® 41140

- Very good mechanical and electrical properties
- Low thermal conductivity
- Low water absorption
- Excellent parallelism
- Good hydrocarbon stability
- Long life expectancy
- Easy to machine
- Flammability acc. to UL-94 V-0

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	160 - 180	ISO 178
Compressive strength \perp at 23°C	MPa	400 - 450	ISO 604
Compressive strength \perp at 200°C	MPa	200 - 250	ISO 604
Electrical properties			
Electric strength \perp at 90°C in oil	kV/mm	21	IEC 60243-1
Thermal properties			
Max. heat resistance (for short periods)	°C	800	
Heat resistance (continuous)	°C	500	
Thermal conductivity	W/m·K	0.18	ISO 8301
Linear expansion coefficient //	1.0E-6/K	10	ISO 11359-2
Physical properties			
Density	g/cm ³	2.15 +/- 0.1	ISO 1183
Flammability		V-0	UL94
Water absorption	%	< 0.5	ISO 62

Description

Pamitherm 41140 is based on muscovite mica paper and high temperature silicone resin with extraordinary properties and very high temperatures.

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:
1200 x 1000 mm, 2400 x 1000 mm
Tolerance +/- 2.5 mm

Thickness range 2 to 50 mm
Thickness tolerance acc. to EN 60371-3-3 +/- 10%

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

Machining

Machining with carbide 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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