

# Laminate

## PAMITHERM 41140

- Very good mechanical and electrical properties
- Low thermal conductivity
- Low water absorption
- Excellent parallelism
- Good hydrocarbon stability
- Free of asbestos
- Long life expectancy
- Easy to machine

### Description

Von Roll offers a complete range of temperature resistant materials with well-established performance.

The low thermal conductivity of our products allows to achieve substantial energy cost savings.

Our products are free of asbestos, high temperature resistant and possess a good mechanical resistance even at elevated temperatures.

From a mechanical point of view these materials can be easily machined. In our modern machining centers we can meet almost all customer requirements. By sanding the pressed sheets we are able to achieve tight tolerances and parallelism.

Additional information about optimal use of our products will be provided by our technical experts in case of interest.

**Pamitherm 41140** is based on muscovite mica paper and high temperature silicone resin.

	Unit	Value	Test norm
<b>Mechanical properties</b>			
Flexural strength	MPa	160 - 180	ISO 178
Compressive strength I, at 23°C,	MPa	400 - 450	ISO 604
Compressive strength I, at 200°C,	MPa	200 - 250	ISO 604
<b>Electrical properties</b>			
Electric strength I at 90°C in oil	kV/mm	21	IEC 60243-1
<b>Thermal properties</b>			
Max. heat resistance (for short periods)	°C	800	
Heat resistance	°C	500	
Thermal conductivity	W/m.K	0.18	ISO 8301
Linear expansion coefficient //	1.0E-6/K	10	ISO 11359-2
<b>Physical properties</b>			
Density	g/cm <sup>3</sup>	2,15 +/- 0,1	ISO 1183
Flammability		V-0	UL94
Water absorption	%	0,15	ISO 62

### 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 format 1200 x 1000 mm, in case of bigger demand also in size 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 product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.

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