

# Laminates

## PAMITHERM 41130

- ▶ Asbestos free
- ▶ Low heat conductivity
- ▶ Excellent tolerances with respect to parallelism
- ▶ Easy to machine
- ▶ Long life expectancy
- ▶ Low water absorption
- ▶ Excellent mechanical durability
- ▶ Very good electrical properties

### General 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 costs savings.

Our products are free of asbestos, high temperature resistant, and possess a good mechanical resistance even at elevated temperature. From a mechanical point of view, these materials can be easily machined.

Call our customer or technical departments for specific information. Our departments will be able to recommend the optimal use of the products and to provide the technical assistance you may need.

The sheets of Pamitherm 41130 are based on mica phlogopite and high temperature resin system.

### RoHS Directive

Hazardous products listed in the EU-directive 2002/95/CE (ROHS-directive), §4 section 1, are not used as ingredients in this material.

### Application

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

### Form of delivery

Sheet sizes of 1200 x 1000mm untrimmed.

Possible size of 2400x1000mm untrimmed.

Please consult.

Standard thicknesses : from 2mm to 50mm. For other please consult our sales department.

Standard product is unsanded but on your request this operation can be made.

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.

		Value	Test norm
<b>Mechanical properties</b>			
Flexural strength	MPa	180	ISO 178
Compressive strength at 23°C, flatwise	MPa	450	ISO 604
Compressive strength at 200°C, flatwise	MPa	300	ISO 604
<b>Electrical properties</b>			
Flatwise electrical strength	kV/mm	23	IEC 60243-1
<b>Physical properties</b>			
Density	g/cm <sup>3</sup>	2.22 ±0.1	ISO 1183
Water absorption 24h 23°C	%	0.2	ISO 62
<b>Thermal properties</b>			
Heat resistance	°C	450	
Maximum heat resistance (for short periods)	°C	800 - 1000	
Thermal conductivity	W/m.K	0.18	DIN 52612
Coefficient of linear expansion //	1.0E-6 / K	9	