

Laminate

VETROTHERM R

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

	Unit	Value	Test norm
Mechanical properties			
Flexural strength at 23°C	MPa	650	ISO 178
Flexural strength at 200°C	MPa	140	ISO 178
Compressive strength \perp , at 23°C	MPa	700	ISO 604
Compressive strength \perp , at 200°C	MPa	450	ISO 604
Thermal properties			
Max. heat resistance (for short periods)	°C	250	
Heat resistance	°C	230	
Thermal conductivity	W/m·K	0.30	ISO 8301
Linear expansion coefficient //	1.0E-6/K	14	ISO 11359-2
Physical properties			
Density	g/cm ³	1,95 ± 0,1	ISO 1183
Water absorption	%	0,08	ISO 62

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.

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 2170 x 1070 mm and up to 4200 x 1300 mm

Thickness range 6 to 40 mm

Thickness tolerance acc. to EN 60893-3-2

Sanded ± 0,1 mm up to 12 mm, above ± 1%

Other dimensions and thicknesses on request.

Also available as panels or machined parts.

Machining

Machining with carbide or diamond tools.

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