

Laminates

DELThERM 68330

- ▶ Asbestos free
- ▶ Low heat conductivity
- ▶ Excellent tolerances with respect to parallelism
- ▶ Easy to machine
- ▶ Long life expectancy
- ▶ Low water absorption
- ▶ Good chemical stability
- ▶ 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. As a result of the very low water absorption and chemical stability, there is an increased life expectancy of the thermal insulation materials offered by Von Roll.

The products are based on glass fabric, glass roving, glass mat and mica paper as well as high temperature resistant resins. 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. In addition to our CNC capabilities in our fabrication centers, we also can drill, turn, sand and in general meet all customer requirements in our modern machining centers.

By sanding the pressed sheets, we are able to achieve tight thickness tolerances and parallelism.

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.

Description

DELThERM 68330 is a laminate based on glass mat and specific resin system giving high mechanical characteristics at high temperature.

Previous product denomination : Glastherm HT 68330.

Colour

Green

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 2000 +/-10mm x 1000 +/-10mm

Standard thicknesses : from 6mm to 16mm. For other please consult our sales department.

The sheets are untrimmed. Homogeneity on a width of 13mm from the edges is not guarantee.

		Value	Test norm
Physical properties			
Density	g/cm ³	1.9 ±0.1	ISO 1183 (method A)
Thermal conductivity, flatwise	W/m.K	0.27	DIN 52612
Water absorption 24h 23°C	%	0.1	ISO 62 (method 1)
Thermal properties			
Maximum heat resistance (for short periods)	°C	200	
Heat resistance	°C	180	
Coefficient of linear expansion //	K ⁻¹	20.10 ⁻⁶	
Mechanical properties			
Compressive strength at 155°C, flatwise	MPa	185	ISO 604
Compressive strength at 200°C, flatwise	MPa	120	ISO 604
Compressive strength at 23°C, flatwise	MPa	330	ISO 604
Flexural strength at 155°C, flatwise	MPa	100	ISO 178
Flexural strength at 23°C, flatwise	MPa	160	ISO 178
Flexural strength at 200°C, flatwise	MPa	50	ISO 178
Electrical properties			
Flatwise electrical strength	kV/mm	7	IEC 60243-1

Standard product is sanded. Thickness tolerances :
 < 10mm = +/- 0,1mm
 10mm < thickness < 15mm = +/- 0,15mm
 > 15mm = +/- 1% of the thickness

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