

# 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**

## 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.

Isola Composite France SA 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 Isola Composite France SA.

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 workshop, we also can drill, turn, sand and in general meet all customer requirements in our modern machining areas. 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.

## Application

Deltherm 68330 is recommended for Insulation for presses, thermal machined insulator parts, insulation of die-casting machines and presses, glass industry, cast rubber molds,...

## Availability

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.

Standard product is sanded. Thickness tolerances :

< 10mm = +/- 0,1mm

10mm < thickness < 15mm = +/- 0,15mm

> 15mm = +/- 1% of the thickness

## Colour

Green

## Technical requirements

Carbide or PCD tools for standard machining

Tools with coated diamond for heavy machining

Physical Properties	Unit	Value	Test Method
Density	g/cm <sup>3</sup>	1,9 ±0,1	ISO 1183 (Method A)
Water absorption (24h 23°C)	%	0,1	ISO 62 (Method 1)

Thermal Properties	Unit	Value	Test Method
Maximum heat resistance (for short periods)	°C	200	
Heat resistance	°C	180	
Coefficient of linear expansion //	K <sup>-1</sup>	20.10 <sup>-6</sup>	
Thermal conductivity	W/m.K	0,27	IEC 60893

Electrical Properties	Unit	Value	Test Method
Flatwise Electric strength	kV/mm	7	IEC 60243-1

Mechanical Properties	Unit	Value	Test Method
Flexural strength at 23°C, flatwise	MPa	160	ISO 178
Flexural strength at 155°C, flatwise	MPa	100	ISO 178
Flexural strength at 200°C, flatwise	MPa	50	ISO 178
Flatwise compressive strength, at 23°C	MPa	420	ISO 604
Flatwise compressive strength, at 155°C	MPa	200	ISO 604
Flatwise compressive strength, at 200°C	MPa	120	ISO 604

The product properties set forth in this data sheet are based on the results of testing of typical material produced by Isola Composite France SA. 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. Isola Composite France SA 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. Isola Composite France SA 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. Isola Composite France SA makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Isola Composite France SA shall in no event be liable for incidental, exemplary, punitive or consequential damages.