

**OVERVIEW TECHNICAL DATA**

# FRATHERNIT® 4000

<b>Product description</b>	Engineered composite material made of resin-bound glass fibers
<b>Standard colour</b>	nature/light beige
<b>Main applications</b>	Pressure resistant insulation material for tool- and mouldindustry
<b>Delivery program</b>	Sheets, panels and highly precise machined parts and finished components

## Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm <sup>3</sup>	1,4
Water absorption	ISO 62	%	0,1

## Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	200
Operation temperature, short-term	-	°C	230
Coeff. of linear thermal expansion	DIN 51045	10 <sup>-6</sup> x K <sup>-1</sup>	20
Thermal conductivity	DIN 52612	W/mK	0,13

## Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm <sup>2</sup>	300
Compressive strength at 200 °C	ISO 604	N/mm <sup>2</sup>	100
Flexural strength at 23 °C	ISO 178	N/mm <sup>2</sup>	200

Issue: 11/2014

The standard values shown in this data sheet are measured by standard test methodes. Depending on operation terms and dimensions the material properties can differ from these values.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.