

TECHNICAL DATA OVERVIEW

FRATHERNIT® 4000

Material Description	Resin-bonded fiberglass composite
Colour	Natural/Light Beige
Uses	Pressure-resistant thermal insulation plates for tool and mold manufacturing
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,4
Water absorption	ISO 62 Standard	%	0,1

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	200
Application temperature, short-term	–	°C	230
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	20
Thermal conductivity	DIN 52612	W/mK	0,13

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	300
Compressive strength at 200 °C	ISO 604 Standard	N/mm ²	100
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	200

Last Updated: 11/2014

The values shown were determined on standard specimens. The material properties may differ from these values depending on the application and the geometry of the component.

Our consulting engineers and technicians are at your disposal to clarify the exact suitability of the material.