

OVERVIEW TECHNICAL DATA

FRATHERNIT® A extra

Material description	Resin-bonded roving glass fabric composite
Color	yellow/brown
Uses	High-Pressure Resistant Thermal Insulation Plates for Tool and Mold Making
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test standard	Unit	Value
Density	ISO 1183	g/cm ³	1,95
Water absorption	ISO 62	%	0,1

Thermal properties

Properties	Test standard	Unit	Value
Application temperature, continuous	–	°C	220
Application temperature, short-term	–	°C	230
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	13
Thermal conductivity	DIN 52612	W/mK	0,21

Mechanical properties

Properties	Test standard	Unit	Value
Compressive strength at 23 °C	ISO 604	N/mm ²	700
Compressive strength at 220 °C	ISO 604	N/mm ²	450
Flexural strength at 23 °C	ISO 178	N/mm ²	600

Last update: 11/2014

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

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