

OVERVIEW TECHNICAL DATA

FRATHERNIT® HP

Material description	Composite material made of cut glass fibres, fillers and phenolic resin
Color	brown
Uses	Pressure-resistant thermal insulation plates for tool and mould making
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test standard	Unit	Value
Density	ISO 1183	g/cm ³	2,0
Water absorption	ISO 62	%	0,8

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	13
Thermal conductivity	DIN 52612	W/mK	0,3

Mechanical properties

Properties	Test standard	Unit	Value
Compressive strength at 23 °C	ISO 604	N/mm ²	330
Compressive strength at 200 °C	ISO 604	N/mm ²	140
Flexural strength at 23 °C	ISO 178	N/mm ²	100

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.