

OVERVIEW TECHNICAL DATA

FRATHERNIT[®] 2000B

Product description	Engineered composite material made of resin-bound glass fibers and fillers with one-sided profile
Standard colour	white
Main applications	Exterior surface insulations for tool- and mouldindustry
Delivery program	Sheets, panels and highly precise machined parts and finished components

Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm ³	1,85
Water absorption	ISO 62	%	0,3

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	200
Operation temperature, short-term	-	°C	210
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	18
Thermal conductivity	DIN 52612	W/mK	0,12

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	300
Compressive strength at 200 °C	ISO 604	N/mm ²	110
Flexural strength at 23 °C	ISO 178	N/mm ²	130

The one-sided profile is installed to the hot surface of the mould and small cavities are formed. This air-filled cavities increase the insulating effect.

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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.