

Technical Data Sheet

Glastherm® HT 200

GFK-UP

Typical characteristics

 Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 200°C)

Typical industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Pipelines
- Oil and Gas

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g/cm ³	1,9
Flexural strength $^{\perp}$	ISO 178	MPa	200
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	12000
Compressive strength 1) \perp	ISO 604	MPa	320
Compressive strength 1) ± +200°C	ISO 604	MPa	230
Tensile strength II	ISO 527	MPa	120
Impact strength ¹ (Charpy)	ISO 179	kJ / m ²	100
Splitting force II	DIN 53463	N	2200
Thermal properties			
Thermal conductivity $^{2)\perp}$		W / (m * K)	≈ 0,3
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 20
Max. continuous operating temperature		°C	200
Physical properties			
Water absorption (method 1)	ISO 62	%	< 0,1

⁼ perpendicular to the lamination \mbox{II} = parallel to the lamination

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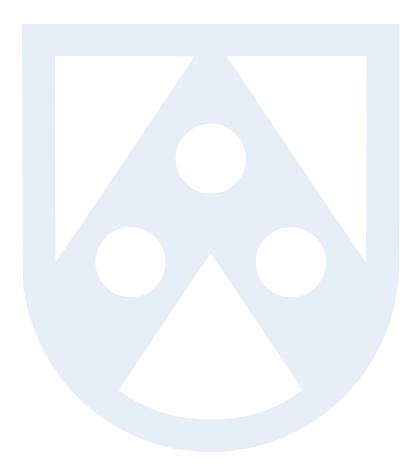
 $^{^{1)}}$ Sample size: 20 x 20 x 20 mm

 $^{^{2)}}$ Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

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