

### 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

- 化学处理行业
- 机械工程行业
- 管路
- 石油和天然气

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

⊥ = perpendicular to the lamination II = parallel to the lamination

<sup>1)</sup> Sample size: 20 x 20 x 20 mm

<sup>2)</sup> Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials.

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