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
Mechanical properties			
Density	ISO 1183	g / cm^3	1,9
Flexural strength ⊥	ISO 178	MPa	200
Modulus of elasticity in flexion ⊥	ISO 178	MPa	12000
Compressive strength [1] ⊥	ISO 604	MPa	320
Compressive strength [1] ⊥ +200°C	ISO 604	MPa	230
Tensile strength II	ISO 527	MPa	120
Impact strength ⊥ (Charpy)	ISO 179	kJ / m^2	100
Splitting force II	DIN 53463	N	2200
Thermal properties			
Thermal conductivity [2] ⊥		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 II = parallel to the lamination

[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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