

Technical Data Sheet

Glastherm® HT 300

GFK-EP

Typical characteristics

- Low thermal conductivity
- High compressive strength
- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 300°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 [⊥]	ISO 178	MPa	120
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	15000
Compressive strength ^{1) ⊥}	ISO 604	MPa	330
Compressive strength ^{1) ⊥} +200°C	ISO 604	MPa	280
Thermal properties			
Thermal conductivity ^{2) ⊥}		W / (m * K)	≈ 0,28
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 10 - 15
Max. continuous operating temperature		°C	300

= perpendicular to the lamination II = parallel to the lamination

¹⁾ Sample size: 20 x 20 x 10 mm

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

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