

Technical Data Sheet

Glastherm[®] HT LC

Typical characteristics

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 200°C)
- Extremely low thermal conductivity and extremely high heat resistance

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	1,5
Flexural strength [⊥]	ISO 178	MPa	170
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	10000
Compressive strength ^{1) ⊥}	ISO 604	MPa	300
Compressive strength ^{1) ⊥ +200°C}	ISO 604	MPa	90
Impact strength [⊥] (Charpy)	ISO 179	kJ / m ²	80
Thermal properties			
Thermal conductivity ^{2) ⊥}		W / (m * K)	0,18
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 20
Max. continuous operating temperature		°C	200
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2

= 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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