

Technical Data Sheet

Glastherm[®] HT 300

Typical characteristics

- Low thermal conductivity and extremely high compressive strength
- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 300°C)

Typical industries

- Costruzione di serbatoi e impianti chimici
- Ingegneria meccanica e impiantistica
- Oleodotti
- Olio e 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 || = 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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