

Technical Data Sheet

Glastherm[®] HT 200 (SMC)

Typical characteristics

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 200°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	1,8
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	160
Tensile strength II	ISO 527	MPa	120
Impact strength [⊥] (Charpy)	ISO 179	kJ / m ²	60
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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