

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

- 화학 가공 산업
- 기계 공학 산업
- Pipelines
- Oil and 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

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials.

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