Technical Data Sheet

Glastherm® HT 220

Product characteristics

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 220°C)
- Low thermal conductivity

Product industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Pipelines
- Oil and Gas

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	1,85
Flexural strength ⊥	ISO 178	MPa	360
Modulus of elasticity in flexion ⊥	ISO 178	MPa	18000
Compressive strength [1] ⊥	ISO 604	MPa	500
Compressive strength [1] ⊥ +200°C	ISO 604	MPa	360
Tensile strength II	ISO 527	MPa	280
Impact strength ⊥ (Charpy)	ISO 179	kJ / m^2	150
Splitting force II	DIN 53463	N	4000
Thermal properties			
Thermal conductivity [2] ⊥		W / (m * K)	≈ 0,25
Coefficient of linear expansion II	TMA (Mettler)	10^{-6} x K^{-1}	≈ 10 - 15
Max. continuous operating temperature		°C	220
Physical properties			
Water absorption (4mm thickness)	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. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee

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