

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
- Thermal insulation
- Engineering
- ...

Product applications

	Test method	Unit	Guideline Value
Mechanical properties			
Density	ISO 1183	g/cm ³	1,85
Flexural strength \perp	ISO 178	MPa	360
Modulus of elasticity in flexion \perp	ISO 178	MPa	18000
Compressive strength ¹⁾ \perp	ISO 604	MPa	500
Compressive strength ¹⁾ \perp +200°C	ISO 604	MPa	360
Tensile strength II	ISO 527	MPa	280
Impact strength \perp (Charpy)	ISO 179	kJ/m ²	150
Splitting force II	DIN 53463	N	4000
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1
Thermal properties			
Thermal conductivity ²⁾ \perp		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

\perp = 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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