

Technical Data Sheet

Glastherm® HT 220

GFK-EP

Typical characteristics

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

Typical industries

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

	Test method	Unit	Guideline value
	Test method	Offic	Guidelille value
Mechanical properties			<u></u>
Density	ISO 1183	g/cm³	1,85
Flexural strength $^{\perp}$	ISO 178	MPa	360
Modulus of elasticity in flexion ¹	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 ¹ (Charpy)	ISO 179	kJ / m ²	150
Splitting force II	DIN 53463	N	4000
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
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1

⁼ perpendicular to the lamination II = parallel to the lamination

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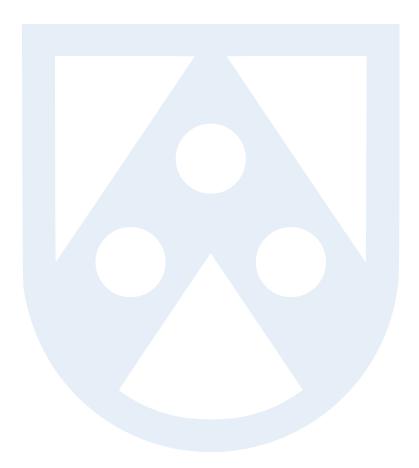
¹⁾ Sample size: 20 x 20 x 20 mm

 $^{^{2)}}$ Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm $\,$





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