

## Technical Data Sheet

# Glastherm<sup>®</sup> HT 220

### 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

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

	Test method	Unit	Guideline value
<b>Mechanical properties</b>			
Density	ISO 1183	g / cm <sup>3</sup>	1,85
Flexural strength <sup>⊥</sup>	ISO 178	MPa	360
Modulus of elasticity in flexion <sup>⊥</sup>	ISO 178	MPa	18000
Compressive strength <sup>1) ⊥</sup>	ISO 604	MPa	500
Compressive strength <sup>1) ⊥</sup> +200°C	ISO 604	MPa	360
Tensile strength II	ISO 527	MPa	280
Impact strength <sup>⊥</sup> (Charpy)	ISO 179	kJ / m <sup>2</sup>	150
Splitting force II	DIN 53463	N	4000
<b>Thermal properties</b>			
Thermal conductivity <sup>2) ⊥</sup>		W / (m * K)	≈ 0,25
Coefficient of linear expansion II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	≈ 10 - 15
Max. continuous operating temperature		°C	220
<b>Physical properties</b>			
Water absorption (4mm thickness)	ISO 62	%	0,1

⊥ = perpendicular to the lamination II = parallel to the lamination

<sup>1)</sup> Sample size: 20 x 20 x 20 mm

<sup>2)</sup> Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

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