Technical Data Sheet

Glastherm® HT 250 HQ

Typical characteristics

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 250°C)
- Low thermal conductivity
- High compressive strength

Typical industries

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

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	2,0
Flexural strength ⊥	ISO 178	MPa	600
Modulus of elasticity in flexion ⊥	ISO 178	MPa	30000
Compressive strength [1] ⊥	ISO 604	MPa	700
Compressive strength [1] ⊥ +200°C	ISO 604	MPa	510
Tensile strength II	ISO 527	MPa	400
Impact strength ⊥ (Charpy)	ISO 179	kJ / m^2	300
Thermal properties			
Thermal conductivity [2] ⊥		W / (m * K)	≈ 0,27
Coefficient of linear expansion II	TMA (Mettler)	10^{-6} x K^{-1}	≈ 10 - 15
Max. continuous operating temperature		°C	250
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

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