

Technical Data Sheet

Glastherm® HT 250 M

Typical characteristics

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

Typical industries

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

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g/cm ³	2,0
Flexural strength ¹	ISO 178	MPa	300
Modulus of elasticity in flexion ¹	ISO 178	MPa	22000
Compressive strength 1) 1	ISO 604	MPa	600
Compressive strength ¹) ⊥ +200°C	ISO 604	МРа	445
Tensile strength II	ISO 527	MPa	250
Impact strength ¹ (Charpy)	ISO 179	kJ / m ²	150
Splitting force II	DIN 53463	N	5000
Thermal properties			
Thermal conductivity $^{2)\perp}$		W / (m * K)	≈ 0,23
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	%	0,15

⁼ perpendicular to the lamination II = parallel to the lamination

Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0 $in fo@roechling-plastics.com \bullet www.roechling.com/industrial/haren\\$

Print: 04/05/2024 • Release: 20/09/2023

PIM-Version: 373 • PIM-ID: 716640 • PIM-Code: 373-44-9.7-7.5.4.5-16



 $^{^{1)}}$ Sample size: 20 x 20 x 20 mm

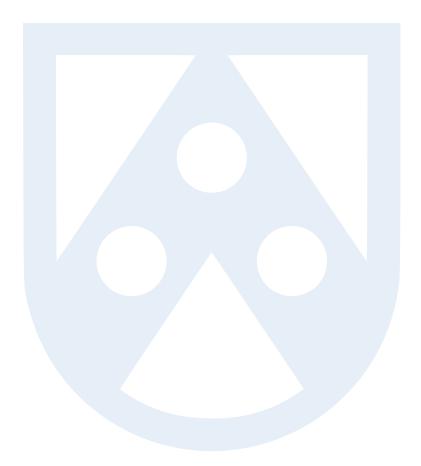
 $^{^{2)}}$ Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm $\,$

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