

Technical Data Sheet

Glastherm® HT LC

Typical characteristics

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 200°C)
- Low thermal conductivity
- Heat resistant

Typical industries

- Construction de réservoirs et d'installations chimiques
- Construction de machines et d'installations
- Pipelines
- Pétrole et gaz

	Test method	Unit	Guideline value
Mechanical properties			
Densité	ISO 1183	g/cm ³	1,5
Flexural strength ¹	ISO 178	MPa	170
Modulus of elasticity in flexion $^{\perp}$	ISO 178	MPa	10000
Compressive strength 1) 1	ISO 604	MPa	300
Compressive strength ^{1) \(\Delta\)} +200°C	ISO 604	MPa	90
Impact strength ¹ (Charpy)	ISO 179	kJ / m ²	80
Thermal properties			
Thermal conductivity ^{2) ⊥}		W / (m * K)	0,18
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 20
Max. continuous operating temperature		°C	200
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2

⁼ 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 info@roechling-plastics.com • www.roechling.com/industrial/haren

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¹⁾ Sample size: 20 x 20 x 20 mm

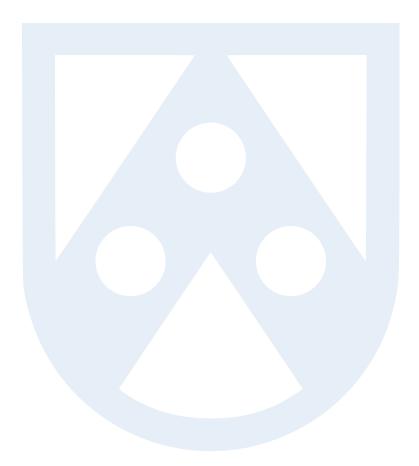
 $^{^{2)}}$ Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

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