# Röchling

### Industrial

## Technical Data Sheet Glastherm<sup>®</sup> HT LC

GFK-UP

#### **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**

- 化学处理行业
- 机械工程行业
- 管路
- 石油和天然气

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm <sup>3</sup>	1,5
Flexural strength <sup>⊥</sup>	ISO 178	MPa	170
Modulus of elasticity in flexion $^\perp$	ISO 178	MPa	10000
Compressive strength <sup>1) ⊥</sup>	ISO 604	MPa	300
Compressive strength <sup>1) ⊥</sup> +200°C	ISO 604	MPa	90
Impact strength <sup>⊥</sup> (Charpy)	ISO 179	kJ / m²	80
Thermal properties			
Thermal conductivity <sup>2) ⊥</sup>		W / (m * K)	0,18
Coefficient of linear expansion II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	≈ 20
Max. continuous operating temperature		<b>0°</b>	200
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2

 $\perp$  = 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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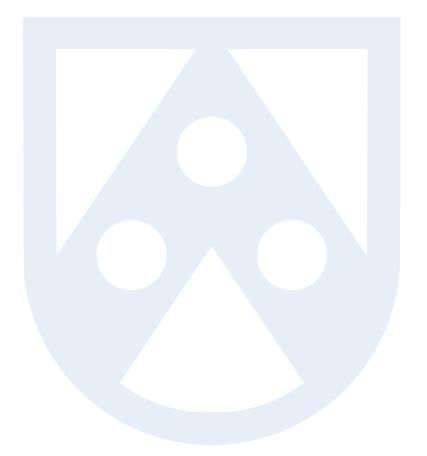
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