

## **Technical Data Sheet**

# Glastherm® HT 250 HQ

**GFK-EP** 

#### **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

		Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g/cm <sup>3</sup>	2,0
Flexural strength <sup>1</sup>	ISO 178	MPa	600
Modulus of elasticity in flexion <sup>1</sup>	ISO 178	MPa	30000
Compressive strength $^{1)}\perp$	ISO 604	MPa	700
Compressive strength <sup>1) \(\perp\)</sup> +200°C	ISO 604	MPa	510
Tensile strength II	ISO 527	MPa	400
Impact strength <sup>1</sup> (Charpy)	ISO 179	kJ/m <sup>2</sup>	300
Thermal properties			
Thermal conductivity <sup>2) ⊥</sup>		W / (m * K)	≈ 0,27
Coefficient of linear expansion II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	≈ 10 - 15
Max. continuous operating temperature		°C	250
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1

<sup>=</sup> perpendicular to the lamination  $\mbox{II}$  = parallel to the lamination

### ri-inquiry@roechling.com • www.roechling.com/industrial/materials



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

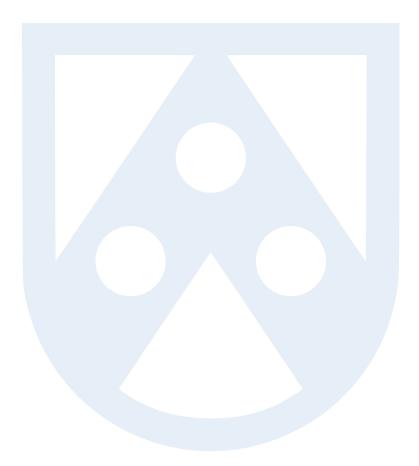
 $<sup>^{2)}</sup>$  Thermal conductivity calculated by means of reference measurements on samples of 300 x 200 x 10 mm

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