# Röchling

### Industrial

## Technical Data Sheet

Glastherm<sup>®</sup> 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**

- Химическая промышленность
- Машиностроение
- Нефтепроводы
- Нефтегазовая отрасль

	Test method	Unit	Outstate the sure has
			Guideline value
Mechanical properties			
Density	ISO 1183	g / cm <sup>3</sup>	2,0
Flexural strength <sup>⊥</sup>	ISO 178	MPa	600
Modulus of elasticity in flexion $^{\perp}$	ISO 178	MPa	30000
Compressive strength <sup>1) ⊥</sup>	ISO 604	MPa	700
Compressive strength <sup>1) ⊥</sup> +200°C	ISO 604	MPa	510
Tensile strength II	ISO 527	MPa	400
Impact strength <sup>⊥</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

 $\perp$  = perpendicular to the lamination II = parallel to the lamination

<sup>1)</sup> 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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#### ri-inquiry@roechling.com • www.roechling.com/industrial/materials

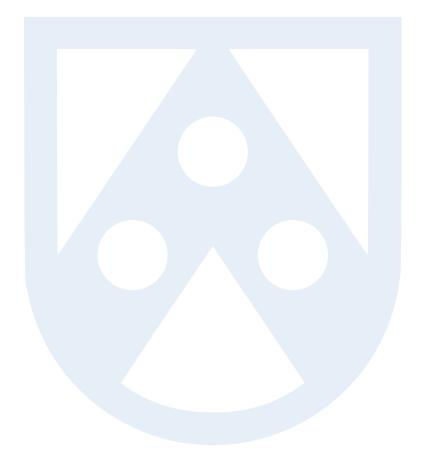
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