

## Technical Data Sheet

# Glastherm<sup>®</sup> HT 300

### Typical characteristics

- Low thermal conductivity and extremely high compressive strength
- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 300°C)

### Typical industries

- 화학 가공 산업
- 기계 공학 산업
- Pipelines
- Oil and Gas

	Test method	Unit	Guideline value
<b>Mechanical properties</b>			
Density	ISO 1183	g / cm <sup>3</sup>	1,9
Flexural strength <sup>⊥</sup>	ISO 178	MPa	120
Modulus of elasticity in flexion <sup>⊥</sup>	ISO 178	MPa	15000
Compressive strength <sup>1) ⊥</sup>	ISO 604	MPa	330
Compressive strength <sup>1) ⊥</sup> +200°C	ISO 604	MPa	280
<b>Thermal properties</b>			
Thermal conductivity <sup>2) ⊥</sup>		W / (m * K)	≈ 0,28
Coefficient of linear expansion II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	≈ 10 - 15
Max. continuous operating temperature		°C	300



L = perpendicular to the lamination II = parallel to the lamination

<sup>1)</sup> Sample size: 20 x 20 x 10 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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Print: 12/05/2024 • Release: 20/09/2023

PIM-Version: 389 • PIM-ID: 716651 • PIM-Code: 389-41-7.9-7.5.4.5-13

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