

## Technický datový list

# Glastherm<sup>®</sup> HT 220

### Vlastnosti produktu

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 220°C)
- Low thermal conductivity

### Typické oblasti použití

- Výroba nádrží a zařízení pro chemický průmysl
- Stavba strojů a zařízení
- Potrubí
- Ropa a plyn

	Testovací metoda	Jednotka	Orientační hodnota
<b>Mechanické vlastnosti</b>			
Hustota	ISO 1183	g / cm <sup>3</sup>	1,85
Pevnost v ohybu <sup>⊥</sup>	ISO 178	MPa	360
Modul pružnosti v ohybu <sup>⊥</sup>	ISO 178	MPa	18000
Pevnost v tlaku <sup>1) ⊥</sup>	ISO 604	MPa	500
Pevnost v tlaku <sup>1) ⊥ +200 °C</sup>	ISO 604	MPa	360
Pevnost v tahu II	ISO 527	MPa	280
Rázová houževnatost <sup>⊥</sup> (Charpy)	ISO 179	kJ / m <sup>2</sup>	150
Štěpná síla II	DIN 53463	N	4000
<b>Teplné vlastnosti</b>			
Teplná vodivost <sup>2) ⊥</sup>		W / (m * K)	≈ 0,25
Součinitel lineární roztažnosti II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	≈ 10 - 15
Maximální trvalá provozní teplota		°C	220
<b>Fyzikální vlastnosti</b>			
Absorpce vody (4 mm tloušťka)	ISO 62	%	0,1

⊥ = 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

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials.

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Print: 02/06/2026 • Vydáno: 30/03/2026 • Verze: 1.0  
 PIM-ID: 716636 • PIM-kód: 1070-41-11.12-9.5.5-16  
 Company-IDs: 21020

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