

Technický datový list

Glastherm[®] HT 250 HQ

Vlastnosti produktu

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 250°C)
- Low thermal conductivity
- High compressive strength

Typické oblasti použití

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

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	2,0
Pevnost v ohybu [⊥]	ISO 178	MPa	600
Modul pružnosti v ohybu [⊥]	ISO 178	MPa	30000
Pevnost v tlaku ^{1) ⊥}	ISO 604	MPa	700
Pevnost v tlaku ^{1) ⊥ +200 °C}	ISO 604	MPa	510
Pevnost v tahu II	ISO 527	MPa	400
Rázová houževnatost [⊥] (Charpy)	ISO 179	kJ / m ²	300
Tepelné vlastnosti			
Tepelná vodivost ^{2) ⊥}		W / (m * K)	≈ 0,27
Součinitel lineární roztažnosti II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 10 - 15
Maximální trvalá provozní teplota		°C	250
Fyzikální vlastnosti			
Absorpce vody (4 mm tloušťka)	ISO 62	%	0,1

⊥ = perpendicular to the lamination II = parallel to the lamination

¹⁾ 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

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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Page 1 / 2 (Dates in DD/MM/YYYY)



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Page 2 / 2 (Dates in DD/MM/YYYY)

