

Technický datový list

Glastherm[®] HT 200 (SMC)

Vlastnosti produktu

- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 200°C)

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	1,8
Pevnost v ohybu [⊥]	ISO 178	MPa	200
Modul pružnosti v ohybu [⊥]	ISO 178	MPa	12000
Pevnost v tlaku ^{1) ⊥}	ISO 604	MPa	320
Pevnost v tlaku ^{1) ⊥} +200 °C	ISO 604	MPa	160
Pevnost v tahu II	ISO 527	MPa	120
Rázová houževnatost [⊥] (Charpy)	ISO 179	kJ / m ²	60
Štěpná síla II	DIN 53463	N	2200
Tepelné vlastnosti			
Tepelná vodivost ^{2) ⊥}		W / (m * K)	≈ 0,3
Součinitel lineární roztažnosti II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 20
Maximální trvalá provozní teplota		°C	200
Fyzikální vlastnosti			
Absorpce vody (metoda 1)	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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