

Technický datový list

Glastherm® HT 300

Vlastnosti produktu

- Low thermal conductivity
- High compressive strength
- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 300°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	1,9
Pevnost v ohybu [⊥]	ISO 178	MPa	120
Modul pružnosti v ohybu [⊥]	ISO 178	MPa	15000
Pevnost v tlaku ¹⁾ [⊥]	ISO 604	MPa	330
Pevnost v tlaku ¹⁾ [⊥] +200 °C	ISO 604	MPa	280
Tepelné vlastnosti			
Tepelná vodivost ²⁾ [⊥]		W / (m * K)	≈ 0,28
Součinitel lineární roztažnosti II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	≈ 10 - 15
Maximální trvalá provozní teplota		°C	300

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

¹⁾ Sample size: 20 x 20 x 10 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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