Technical Data Sheet

Glastherm® HT LC

Typical characteristics

- Material compuesto reforzado con fibra desarrollado para aplicaciones en el campo del aislamiento térmico (temperatura máxima de funcionamiento continuo 200°C)
- Baja conductividad térmica
- Resistente al calor

Typical industries

- Construcción de contenedores químico
- Construcción de máquinas e instalaciones
- Oleoductos
- Petróleo y gas

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	1,5
Flexural strength ⊥	ISO 178	MPa	170
Modulus of elasticity in flexion ⊥	ISO 178	MPa	10000
Compressive strength [1] ⊥	ISO 604	MPa	300
Compressive strength [1] ⊥ +200°C	ISO 604	MPa	90
Impact strength ⊥ (Charpy)	ISO 179	kJ / m^2	80
Thermal properties			
Thermal conductivity [2] ⊥		W / (m * K)	0,18
Coefficient of linear expansion II	TMA (Mettler)	10^{-6} x K^{-1}	≈ 20
Max. continuous operating temperature		°C	200
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2

⊥ = 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

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