

## Technical Data Sheet

# Glastherm<sup>®</sup> S

### Typical characteristics

- Low thermal conductivity and extremely high heat resistance
- Reduces Heat Loss
- Fibre-reinforced composite material developed for applications in field of thermal insulation (max. continuous operating temperature 218°C)

### Typical industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Pipelines
- Oil and Gas

	Test method	Unit	Guideline value
<b>General properties</b>			
Standard Color			Tan
Maximum Service Temp.		°C	218
<b>Mechanical properties</b>			
Flexural Strength	ASTM D 790	psi	18,000
Compressive Strength @75°F / 24°C	ASTM D 695	psi	45,000
Compressive Strength @302°F / 150°C	ASTM D 695	psi	16,000
Compressive Strength @392°F / 200°C	ASTM D 695	psi	11,500
Compressive Strength @550°F / 288°C	ASTM D 695	psi	10,000
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	8
<b>Thermal properties</b>			
Coefficient of Thermal Expansion Across Thickness	ASTM D 696	(in./in.°C) x 10-5	7.02
Coefficient of Thermal Expansion Across Surface	ASTM D 696	(in./in.°C) x 10-5	1.10
Thermal Conductivity	ASTM C 177		1.8
<b>Flame resistance properties</b>			
UL Subject 94	UL 94		HB
<b>Physical properties</b>			
Density	ASTM D 792	lbs/ft <sup>3</sup>	115
Water Absorption	ASTM D 570	% by wt.	0.4



	Test method	Unit	Guideline value
Thickness Tolerance		inches	+/-0.002
<b>Dielectrical properties</b>			
Electrical Strength - Perpendicular S/T in Air	ASTM D 149	Vpm	50

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