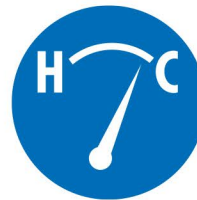


## Glastherm® Grade S

- Good Hot Compressive Strength
- Low Thermal Conductivity
- Oil and Moisture Resistant
- Reduces Heat Loss
- Helps Control Temperature
- Faster Mold Startup

Glastherm Grade S is a general purpose insulation sheet with an economical combination of thermal and physical properties. Grade S is recommended for processes where the continuous operating temperature does not exceed 425°F.

It is completely asbestos-free and rugged to withstand rough handling during installation. It is easily cut and machined with standard metal working equipment. Diamond cutting tools are recommended for long life.



## Glastherm® Grade S

	Procedure	English Units	Typical Values	Metric Units	Typical Values
<b>General Information</b>					
Part Number			3318		3318
Standard Color			Tan		Tan
Maximum Service Temp.		°F	425	°C	218
<b>Mechanical Properties</b>					
Flexural Strength	ASTM D 790	Psi	18,000	Mpa	124
Compressive Strength					
@75°F / 24°C	ASTM D 695	Psi	45,000	Mpa	310
@302°F / 150°C	ASTM D 695	Psi	16,000	Mpa	110
@392°F / 200°C	ASTM D 695	Psi	11,500	Mpa	79
@550°F / 288°C	ASTM D 695	Psi	10,000	Mpa	69
Compressive Modulus	ASTM D 695	Psi	1,800,000	Mpa	12,410
IZOD Impact Strength (notched)	ASTM D 256	Ft.lb./in.	8	J/cm	4.3
<b>Electrical Properties</b>					
Electrical Strength – Perpendicular S/T in air	ASTM D 149	Vpm	50	kV/mm	2
<b>Flame Resistance Properties</b>					
UL Subject 94	UL 94	0.94 in.	HB	2.4 mm	HB
<b>Physical Properties</b>					
Water Absorption	ASTM D 570	% by wt.	0.4	% by wt.	0.4
Specific Gravity	ASTM D 792	lbs/ft <sup>3</sup>	115	g/cm <sup>3</sup>	1.84
Hardness	ASTM D 785	Rockwell M	94		94
Thickness Tolerance		inches	±0.002	mm	±0.005
Coefficient of Thermal Expansion					
Across Thickness	ASTM D 696	In/In/°C×10 <sup>-5</sup>	7.02	10 <sup>-6</sup> /K	70
Across Surface	ASTM D 696	In/In/°C×10 <sup>-5</sup>	1.10		11
Thermal Conductivity	ASTM C 177	BTU•In/Hr•Ft <sup>2</sup> •°F	1.8	W/m•K	0.26

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