

Grade S Insulation

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



Glastherm Grade S

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.



General Information	Procedure	English Units	Typical Values	Metric Units	Typical Values
Part Number			3318		3318
Standard Color			Tan		Tan
Maximum Service Temperature		° F	425	° C	218
Mechanical Properties					
Flexural Strength	ASTM D 790	Psi	18,000	Mpa	124
Compressive Strength		Psi			
@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
Electrical Properties					
Electric Strength-Perpendicular S/T in Air	ASTM D 149	Vpm	50	kV/mm	2
Flame and Smoke Characteristics					
UL Subject 94	UL 94	0.94 in.	HB	2.4mm	HB
Physical Properties					
Water Absorption	ASTM D 570	% by wt.	0.4	% by wt.	0.4
Density	ASTM D 792	lbs/ft ³	115	g/cm ³	1.84
Hardness	ASTM D 785	Rockwell M	94		94
Thickness Tolerance		inches	±0.002	mm	±0.05
Coefficient of Thermal Expansion Across Thickness Across Surface	ASTM D 696	In/In/° Cx10-5	7.02	10 ⁻⁶ /K	70
	ASTM D 696	In/In/° Cx10-5	1.10		11
Thermal Conductivity	ASTM C 177	BTU•In/Hr•Ft ² •° F	1.8	W/m•K	0.26



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