

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 $425^{\circ}F$.

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
General Information					
Part Number			3318		3318
Standard Color			Tan		Tan
Maximum Service Temp.		°F	425	°C	218
Mechanical Properties					
Flexural Strength	ASTM D 790	Psi	18,000	Мра	124
Compressive Strength					
@75°F / 24°C	ASTM D 695	Psi	45,000	Мра	310
@302°F / 150°C	ASTM D 695	Psi	16,000	Мра	110
@392°F / 200°C	ASTM D 695	Psi	11,500	Мра	79
@550°F / 288°C	ASTM D 695	Psi	10,000	Мра	69
Compressive Modulus	ASTM D 695	Psi	1,800,000	Мра	12,410
IZOD Impact Strength (notched)	ASTM D 256	Ft.lb./in.	8	J/cm	4.3
Electrical Properties					
Electrical Strength – Perpendicular S/T in air	ASTM D 149	Vpm	50	kV/mm	2
Flame Resistance Properties					
UL Subject 94	UL 94	0.94 in.	НВ	2.4 mm	HB
Physical Properties					
Water Absorption	ASTM D 570	% by wt.	0.4	% by wt.	0.4
Specific Gravity	ASTM D 792	lbs/ft³	115	g/cm³	1.84
Hardness	ASTM D 785	Rockwell M	94		94
Thickness Tolerance		inches	±0.002	mm	±0.005
Coefficient of Thermal Expansion					
Across Thickness Across Surface	ASTM D 696 ASTM D 696	In/In/°Cx10 ⁻⁵ In/In/°Cx10 ⁻⁵	7.02 1.10	10 ⁻⁶ /K	70 11
Thermal Conductivity	ASTM C 177	BTU•In/Hr•Ft²•°F	1.8	W/m•K	0.26

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