

Glastic GLASTHERM S Insulation Sheet

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS

Material Notes:

Glastherm Grade S is a general purpose insulation sheet with an economical combination of thermal and physical properties. Not recommended for processes where the continuous operating temperature exceeds 425°F. Grade S is asbestos-free and rugged to withstand rough handling during installation. Suited to rubber molding industry. Information provided by Glastic Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-GLASTHERM-S-Insulation-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	ASTM D-792
Water Absorption	0.40 %	0.40 %	% by wt.; ASTM D-570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D-785
Flexural Strength	124 MPa	18000 psi	ASTM D-790
Compressive Strength	68.9 MPa	10000 psi	ASTM D-695
	@Temperature 288 °C	@Temperature 550 °F	
	79.3 MPa	11500 psi	ASTM D-695
	@Temperature 200 °C	@Temperature 392 °F	
	110 MPa	16000 psi	ASTM D-695
	@Temperature 150 °C	@Temperature 302 °F	
	310 MPa	45000 psi	ASTM D-695
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compressive Modulus	12.4 GPa	1800 ksi	ASTM D-695
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D-256

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C	6.11 µin/in-°F	Across Surface; ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	70.2 µm/m-°C	39.0 µin/in-°F	Across Thickness; ASTM D-696
	@Temperature 20.0		

Thermal Properties	°C Metric	@Temperature 68.0 °F English	Comments
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² - °F	ASTM C-177
Maximum Service Temperature, Air	218 °C	425 °F	
Flammability, UL94	HB @Thickness 23.9 mm	HB @Thickness 0.940 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	2.00 kV/mm	50.8 kV/in	Perpendicular S/T in Air; ASTM D-149

Descriptive Properties	Value	Comments
Standard Color	Tan	
Thickness Tolerance in	± 0.002	

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