

## Glastic GLASTHERM HT Insulation Sheet

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

### Material Notes:

Glastherm Grade HT is a high compressive strength, heat-resistant composite material. It is ideal for insulation between the fold and the press or within the mold itself. Grade HT is completely asbestos-free and is rugged to withstand rough handling during installation.

Features of Grade HT include High hot compressive strength Low thermal conductivity Oil and moisture resistant Reduces heat loss Helps control temperature Faster mold startup Information provided by Glastic Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Glastic-GLASTHERM-HT-Insulation-Sheet.php](http://www.lookpolymers.com/polymer_Glastic-GLASTHERM-HT-Insulation-Sheet.php)

Physical Properties	Metric	English	Comments
Density	1.97 g/cc	0.0712 lb/in <sup>3</sup>	ASTM D-792
Water Absorption	0.20 %	0.20 %	% by wt.; ASTM D-570

Mechanical Properties	Metric	English	Comments
Flexural Strength	214 MPa	31000 psi	ASTM D-790
Compressive Strength	117 MPa	17000 psi	ASTM D-695
	@Temperature 288 °C	@Temperature 550 °F	
	124 MPa	18000 psi	
	@Temperature 200 °C	@Temperature 392 °F	ASTM D-695
	186 MPa	27000 psi	ASTM D-695
	@Temperature 150 °C	@Temperature 302 °F	
	338 MPa	49000 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	22.1 µm/m-°C	12.3 µin/in-°F	Across Surface; ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	116.2 µm/m-°C	64.56 µin/in-°F	Across Thickness; ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C-177

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	288 °C	550 °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	White/Green	
Thickness Tolerance in	± 0.002	

## Contact Songhan Plastic Technology Co.,Ltd.

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