

Glastic GLASTHERM HT220 Insulation Sheet

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

Material Notes:

Glastherm Grade HT220 is a thermal insulation sheet that is a highly heat-resistant material that combines low thermal conductivity with very high compressive strength at molding temperature. It is ideal for many of the more difficult molding applications. Information provided by Glastic Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-GLASTHERM-HT220-Insulation-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	ASTM D-792
Water Absorption	0.20 %	0.20 %	% by wt.; ASTM D-570

Mechanical Properties	Metric	English	Comments
Flexural Strength	360 MPa	52200 psi	ASTM D-790
Compressive Strength	241 MPa	35000 psi	ASTM D-695
	@Temperature 288 Â°C	@Temperature 550 Â°F	
	280 MPa	40600 psi	ASTM D-695
	@Temperature 200 Â°C	@Temperature 392 Â°F	
	380 MPa	55100 psi	ASTM D-695
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	500 MPa	72500 psi	ASTM D-695
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Compressive Modulus	18.0 GPa	2610 ksi	ASTM D-695

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 Âµm/m-Â°C	7.22 Âµin/in-Â°F	Across Surface; ASTM D-696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	57.0 Âµm/m-Â°C	31.7 Âµin/in-Â°F	Across Thickness; ASTM D-696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²-Â°F	ASTM C-177

Maximum Service Temperature, Air Thermal Properties	232 Â°C Metric	450 Â°F English	Comments
	320 Â°C	608 Â°F	

Descriptive Properties	Value	Comments
Standard Color	Light Beige	
Thickness Tolerance in	Â± 0.004	

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