

Glastic GLASTHERM HT200 Insulation Sheet

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

Material Notes:

HT200 features: High Hot Compressive Strength, Low Thermal Conductivity, Oil and Moisture Resistant, Reduces Heat Loss, Helps Control Temperature, Faster Mold Startup. Designed for reducing heat losses from plastic and zinc die cast molds with operating temperatures up to 550°F. Its thermal insulating capability provides faster startups and increased operating efficiency while its high strength provides long service life. It is asbestos-free and rugged to withstand mechanical abuse during installation. It is easily cut and machined with standard metal working equipment. Diamond cutting tools are recommended for long life. Information provided by Red Seal Electric.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-GLASTHERM-HT200-Insulation-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.97 g/cc	1.97 g/cc	ASTM D-792
Water Absorption	0.2 %	0.2 %	% 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	ASTM D-695
	@Temperature 200 °C	@Temperature 392 °F	
	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 D256

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

Thermal Properties	@Temperature 20.0 Metric °C	@Temperature 68.0 English °F	Comments
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² - °F	ASTM C-177
Maximum Service Temperature, Air	211 °C	412 °F	Continuous
	288 °C	550 °F	
Flammability, UL94	HB @Thickness 2.40 mm	HB @Thickness 0.0945 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.97 kV/mm	50.0 kV/in	S/T in Air

Descriptive Properties	Value	Comments
Standard Color	White or Green	

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