

Saint-Gobain Meldin® 7001 CM Compression Molded Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Meldin® 7001 CM unfilled polyimide base resin, compression molded
 Specification Qualifications: Satisfies Type I P for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin
 Satisfies Class 1, Form P for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts
 Satisfies Type I P for MIL-R-46198: Resin, Polyimide, Hot Pressed or Pressed and Sintered
 Information provided by Saint-Gobain Performance Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-7001-CM-Compression-Molded-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.23 %	0.23 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.64 %	0.64 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Deformation	0.10 %	0.10 %	2000 psi load; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	40 - 55	40 - 55	ASTM D785
Tensile Strength	43.1 MPa	6250 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	58.6 MPa	8500 psi	ASTM D638
	@Temperature 175 Â°C	@Temperature 347 Â°F	
	68.9 MPa	10000 psi	ASTM D638
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	86.2 MPa	12500 psi	ASTM D638
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	5.0 %	5.0 %	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	8.0 %	8.0 %	ASTM D638
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	

Mechanical Properties	Metric	English	Comments
Flexural Strength	62.7 MPa	9100 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	109 MPa	15800 psi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Flexural Modulus	1.70 GPa	247 ksi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	3.10 GPa	450 ksi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Compressive Yield Strength	26.2 MPa	3800 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
	128 MPa	18500 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	2.60 GPa	377 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	48.6 Âµm/m-Â°C	27.0 Âµin/in-Â°F	ASTM E831
	@Temperature 23.9 - 260 Â°C	@Temperature 75.0 - 500 Â°F	
Thermal Conductivity	0.346 W/m-K	2.40 BTU-in/hr-ftÂ²-Â°F	ASTM F433
Oxygen Index	100 %	100 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+15 - 1.00e+16 ohm	1.00e+15 - 1.00e+16 ohm	ASTM D257
Dielectric Constant	3.14	3.14	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.16	3.16	ASTM D150
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	3.18	3.18	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	22.8 kV/mm	580 kV/in	short time 2 mm thick; ASTM D149

Electrical Properties	Metric	English	Comments
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