

Saint-Gobain Meldin® 7211 CM Compression Molded Graphite and PTFE Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Meldin® 7211 CM is a compression molded polyimide that contains 15% graphite and 10% PTFE fillers. This grade has the lowest coefficient of friction of the Meldin® 7000 series polyimides. Specification Qualifications: Satisfies Type II, Class 3P for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 4, Form P for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type II, Class 3P 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-7211-CM-Compression-Molded-Graphite-and-PTFE-Filled-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Water Absorption	0.23 %	0.23 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.46 %	0.46 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	1.0 - 15	1.0 - 15	ASTM D785
Tensile Strength	29.6 MPa	4300 psi	ASTM D638
	@Temperature 260 °C	@Temperature 500 °F	
	37.9 MPa	5500 psi	
	@Temperature 170 °C	@Temperature 338 °F	ASTM D638
	41.4 MPa	6000 psi	ASTM D638
	@Temperature 130 °C	@Temperature 266 °F	
	51.7 MPa	7500 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.8 %	2.8 %	ASTM D638
	@Temperature 260 °C	@Temperature 500 °F	
	4.0 %	4.0 %	ASTM D638
	@Temperature 23.9	@Temperature 75.0 °F	

Mechanical Properties	Metric	English	Comments
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	81.4 MPa	11800 psi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	3.40 GPa	493 ksi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Compressive Yield Strength	24.1 MPa	3500 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
	103.1 MPa	14950 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	2.40 GPa	348 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	43.2 Âµm/m-Â°C	24.0 Âµin/in-Â°F	ASTM E831
	@Temperature 22.8 - 260 Â°C	@Temperature 73.0 - 500 Â°F	
Thermal Conductivity	0.749 W/m-K	5.20 BTU-in/hr-ftÂ²-Â°F	ASTM F433

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China