

Saint-Gobain Meldin® 7211 DF Direct Formed Graphite and PTFE Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Meldin® 7211 DF is a direct formed 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 3D for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 4, Form D for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type II, Class 3D 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-DF-Direct-Formed-Graphite-and-PTFE-Filled-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Deformation	0.20 %	0.20 %	2000 psi load; ASTM D621
	<= 0.0020 %	<= 0.0020 %	ASTM D621
	@Temperature 260 Â°C	@Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	29.6 MPa	4300 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	55.2 MPa	8000 psi	ASTM D638
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	5.1 %	5.1 %	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	5.4 %	5.4 %	ASTM D638
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	75.8 MPa	11000 psi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
	1.90 GPa	276 ksi	

Flexural Modulus Mechanical Properties	Metric @ Temperature 260 Â°C	English @ Temperature 500 Â°F	ASTM D790 Comments
	2.70 GPa	392 ksi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Compressive Yield Strength	15.9 MPa	2300 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
	77.2 MPa	11200 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	1.70 GPa	247 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	

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