

Saint-Gobain Meldin[®] 7021 CM Compression Molded Graphite Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Meldin[®] 7021 CM is a self-lubricating compression molded polyimide that contains 15% graphite filler. Meldin[®] 7021 has a low coefficient of friction and high heat resistance, and is best for high temperature bearing, seals, thrust washers, and low-wear applications. Specification Qualifications: Satisfies Type II, Class 1P for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 2, Form P for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type II, Class 1P 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-7021-CM-Compression-Molded-Graphite-Filled-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Water Absorption	0.19 %	0.19 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.50 %	0.50 %	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	25 - 40	25 - 40	ASTM D785
Tensile Strength	39.3 MPa	5700 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	51.7 MPa	7500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	ASTM D638
	57.2 MPa	8300 psi	ASTM D638
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	65.5 MPa	9500 psi	ASTM D638
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	3.2 %	3.2 %	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
	4.7% @Temperature 23.9 Â°C	@Temperature 75.0 Â°F	ASTM D638
Flexural Strength	59.3 MPa @Temperature 260 Â°C	8600 psi @Temperature 500 Â°F	ASTM D790
	109 MPa @Temperature 23.9 Â°C	15800 psi @Temperature 75.0 Â°F	ASTM D790
Flexural Modulus	2.40 GPa @Temperature 260 Â°C	348 ksi @Temperature 500 Â°F	ASTM D790
	3.60 GPa @Temperature 23.9 Â°C	522 ksi @Temperature 75.0 Â°F	ASTM D790
Compressive Yield Strength	29.6 MPa @Strain 1.00 %	4300 psi @Strain 1.00 %	ASTM D695
	124 MPa @Strain 10.0 %	18000 psi @Strain 10.0 %	ASTM D695
Compressive Modulus	3.10 GPa	450 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	39.6 Âµm/m-Â°C @Temperature 22.8 - 260 Â°C	22.0 Âµin/in-Â°F @Temperature 73.0 - 500 Â°F	ASTM E831
Thermal Conductivity	0.720 W/m-K	5.00 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+8 - 1.00e+9 ohm	1.00e+8 - 1.00e+9 ohm	ASTM D257
Dielectric Strength	11.0 kV/mm	280 kV/in	short time 2 mm thick; ASTM D149

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