

Saint-Gobain Meldin[®] 7022 DF Direct Formed Graphite Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Meldin[®] 7022 DF is a direct formed polyimide that contains 40% graphite filler. This grade offers additional dimensional stability at elevated temperatures and the lowest CTE of any Meldin[®] 7000 series polyimide. Specification Qualifications: Satisfies Type II, Class 2D for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 3, Form D for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type II, Class 2D 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-7022-DF-Direct-Formed-Graphite-Filled-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Deformation	0.15 %	0.15 %	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	27.6 MPa	4000 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	49.6 MPa	7200 psi	ASTM D638
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	3.0 %	3.0 %	ASTM D638
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
	3.0 %	3.0 %	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
Flexural Strength	41.4 MPa	6000 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	72.4 MPa	10500 psi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	

Mechanical Properties	Metric ^{Pa}	English	Comments
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	ASTM D790
Compressive Yield Strength	22.8 MPa	3300 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
Compressive Modulus	96.5 MPa	14000 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	19.8 Âµm/m-Â°C	11.0 Âµin/in-Â°F	ASTM E831
	@Temperature 22.8 - 260 Â°C	@Temperature 73.0 - 500 Â°F	

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