

Saint-Gobain Meldin® 7001 Direct Formed Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Finished parts and basic shapes made from unfilled polyimide material for structural applications requiring high electrical insulative properties, high purity and low outgassing, and high temperature resistance. Applications include: plasma cutting torch components, plasma etch equipment clamp rings, aerospace components, semiconductor equipment components. Specification Qualifications: ASTM D 6456-99 Standard Specification for Finished Parts Made from Polyimide Resin (Type I D). SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 1 Form D). MIL-R-46198 Resin, Polyimide, Hot Pressed or Pressed and Sintered (Type I D).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-7001-Direct-Formed-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Deformation	0.10 %	0.10 %	2000 psi load; ASTM D621
	0.00 %	0.00 %	High Temp Dimensional Stability
	@Temperature 260 Â°C	@Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.8 MPa	11000 psi	ASTM D638
	36.5 MPa	5290 psi	ASTM D638
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	41.3 MPa	5990 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	62.0 MPa	8990 psi	ASTM D638
	@Temperature 110 Â°C	@Temperature 230 Â°F	
Elongation at Break	8.0 %	8.0 %	ASTM D638
	7.5 %	7.5 %	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
Flexural Strength	88.3 MPa	12800 psi	ASTM D790
	48.0 MPa	6960 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
	@Temperature 260 Â°C	@Temperature 500 Â°F	
Compressive Strength	22.1 MPa	3200 psi	1 % strain; ASTM D695
	96.5 MPa	14000 psi	10% strain; ASTM D695
Compressive Modulus	2.00 GPa	290 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	4.86 Âµm/m-Â°C	2.70 Âµin/in-Â°F	ASTM E831
	@Temperature 22.8 - 260 Â°C	@Temperature 73.0 - 500 Â°F	
Thermal Conductivity	0.317 W/m-K	2.20 BTU-in/hr-ftÂ²-Â°F	ASTM F433
Maximum Service Temperature, Air	316 Â°C	600 Â°F	
Minimum Service Temperature, Air	-80.0 Â°C	-112 Â°F	
Flammability, UL94	V-0	V-0	
	5VA	5VA	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.5 kV/mm	597 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Color	Brown	

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