

Saint-Gobain Meldin® 7021 Direct Formed Graphite Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

Finished parts and basic shapes made from 15% by weight graphite filled polyimide material for applications high wear resistance, good thermal oxidative stability, and high temperature resistance. Applications include: aerospace components, vehicle transmission sealing rings and thrust washers, and ferrules. Specification Qualifications: ASTM D 6456-99 Standard Specification for Finished Parts Made from Polyimide Resin (Type II Class 1D). SAE AMS 3644G Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts (Class 2 Form D). MIL-R-46198 Resin, Polyimide, Hot Pressed or Pressed and Sintered (Type II Class 1D).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-7021-Direct-Formed-Graphite-Filled-Polyimide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Deformation	0.14 %	0.14 %	2000 psi load; ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	66.9 MPa	9700 psi	ASTM D638
	31.7 MPa	4600 psi	ASTM D638
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	34.5 MPa	5000 psi	ASTM D638
	@Temperature 260 Â°C	@Temperature 500 Â°F	
Elongation at Break	55.1 MPa	7990 psi	ASTM D638
	@Temperature 110 Â°C	@Temperature 230 Â°F	
	5.5 %	5.5 %	ASTM D638
	5.2 %	5.2 %	
	@Temperature 260 Â°C	@Temperature 500 Â°F	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
	51.7 MPa	7500 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	3.10 GPa	450 ksi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	23.4 MPa	3400 psi	1% strain; ASTM D695

Mechanical Properties	Metric 100 MPa	English 15000 psi	Comments 10% strain, ASTM D695
Compressive Modulus	2.07 GPa	300 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 22.8 - 260 $\text{Å}^\circ\text{C}$	2.50 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.0 - 500 $\text{Å}^\circ\text{F}$	ASTM E831
Thermal Conductivity	0.432 W/m-K	3.00 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM F433
Maximum Service Temperature, Air	316 $\text{Å}^\circ\text{C}$	600 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-80.0 $\text{Å}^\circ\text{C}$	-112 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-0	V-0	
	5VA	5VA	

Descriptive Properties	Value	Comments
Color	Black	

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