

Saint-Gobain MeldinÂ® 2211 Bearing

Category : Polymer , Thermoset , Polyimide, TS

Material Notes:

General Notes on Meldin 2000 Series Bearing Products:For High-Temperature, Close-Tolerance Applications. Able to withstand temperatures of 600Â°F with excursions to 900Â°F, the MedlinÂ® 2000 Series can be machined into various configurations, from rod or sheet stock shapes. Black in color. MeldinÂ® 2000 Series offers very high compression strength, high creep resistance, and dimensional stability. **Specific Notes on MeldinÂ® 2211 Bearing**MeldinÂ® 2211 offers the balanced properties of low friction, high strength and resistance to compressive creep. **Applications include:** Appliances, Automotive, Industrial, Semiconductor, Transportation. **Specification Notes:** Note that the specifications given for this product are typical specifications for the MeldinÂ® 2000 Series, and individual products will vary as indicated in the material notes. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-2211-Bearing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570
Deformation	0.10 % @Pressure 13.8 MPa	0.10 % @Pressure 2000 psi	24 hrs. Mold Direction; ASTM D621
Outgassing - Total Mass Loss	0.010 %	0.010 %	% CVCM; ASTM E55955
	0.50 %	0.50 %	% WVR; ASTM E595
	1.19 %	1.19 %	% TML; ASTM E5955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength, Ultimate	22.0 MPa @Temperature 260 Â°C	3190 psi @Temperature 500 Â°F	ASTM D 638
	46.8 MPa @Temperature 23.0 Â°C	6790 psi @Temperature 73.4 Â°F	ASTM D 638
Elongation at Break	3.0 % @Temperature 260 Â°C	3.0 % @Temperature 500 Â°F	ASTM D 638
	4.0 % @Temperature 23.0 Â°C	4.0 % @Temperature 73.4 Â°F	ASTM D 638

Mechanical Properties	0.700 GPa Metric	102 ksi English	Comments
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	2.00 GPa	290 ksi	ASTM D 638
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Flexural Strength	79.2 MPa	11500 psi	ASTM D 790
Flexural Modulus	3.80 GPa	551 ksi	ASTM D 790
Izod Impact, Notched	0.198 J/cm	0.371 ft-lb/in	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 Âµm/m-Â°C	32.2 Âµin/in-Â°F	ASTM E831-93
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ftÂ²- Â°F	C518/C177
Maximum Service Temperature, Air	>= 316 Â°C	>= 600 Â°F	UL-746 B

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	5.47	5.47	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.53	5.53	
	@Frequency 10000 Hz	@Frequency 10000 Hz	ASTM D150
	5.56	5.56	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	ASTM D150
Dissipation Factor	0.0019	0.0019	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0028	0.0028	
	@Frequency 10000 Hz	@Frequency 10000 Hz	ASTM D150
	0.0035	0.0035	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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