

## Saint-Gobain Meldin® 2030 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 600°F with excursions to 900°F, the Meldin® 2000 Series can be machined into various configurations, from rod or sheet stock shapes. Black in color. Meldin® 2000 Series offers very high compression strength, high creep resistance, and dimensional stability. Specific Notes on Meldin® 2030 Bearing: Meldin® 2030 bearing compound operates with extremely low friction in both dynamic and static applications, and provides thermal and electrical insulation. Applications include: Appliances, Automotive, Industrial, Semiconductor, Transportation. Specification Notes: Bushing Material Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Meldin-2030-Bearing.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-2030-Bearing.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Water Absorption	0.62 %	0.62 %	ASTM D570
Deformation	0.35 % @Pressure 13.8 MPa	0.35 % @Pressure 2000 psi	24 hrs. Mold Direction; ASTM D621
Outgassing - Total Mass Loss	0.00 %	0.00 %	% CVCM; ASTM E55955
	1.15 %	1.15 %	% WVR; ASTM E595
	1.25 %	1.25 %	% TML; ASTM E5955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Ultimate	3.40 MPa @Temperature 316 °C	493 psi @Temperature 601 °F	ASTM D 638
	13.7 MPa @Temperature 260 °C	1990 psi @Temperature 500 °F	ASTM D 638
	27.5 MPa @Temperature 23.0 °C	3990 psi @Temperature 73.4 °F	ASTM D 638
Elongation at Break	2.8 % @Temperature 260 °C	2.8 % @Temperature 500 °F	ASTM D 638
	4.0 % @Temperature 316 °C	4.0 % @Temperature 601 °F	ASTM D 638

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D 638
Tensile Modulus	0.0600 GPa	8.70 ksi	ASTM D 638
	@Temperature 316 °C	@Temperature 601 °F	
	0.600 GPa	87.0 ksi	ASTM D 638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.600 GPa	87.0 ksi	ASTM D 638
	@Temperature 260 °C	@Temperature 500 °F	
Flexural Strength	48.2 MPa	6990 psi	ASTM D 790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D 790
Compressive Yield Strength	22.0 MPa	3190 psi	ASTM D695 Modified
	@Strain 6.00 %, Temperature 316 °C	@Strain 6.00 %, Temperature 601 °F	
	38.0 MPa	5510 psi	ASTM D695 Modified
	@Strain 7.00 %, Temperature 260 °C	@Strain 7.00 %, Temperature 500 °F	
	117 MPa	17000 psi	ASTM D695 Modified
	@Strain 10.0 %, Temperature 23.0 °C	@Strain 10.0 %, Temperature 73.4 °F	
Ultimate Compressive Strength	34.4 MPa	4990 psi	ASTM D695 Modified
	@Temperature 316 °C	@Temperature 601 °F	
	55.1 MPa	7990 psi	ASTM D695 Modified
	@Temperature 260 °C	@Temperature 500 °F	
	137.8 MPa	19990 psi	ASTM D695 Modified
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Modulus	0.300 GPa	43.5 ksi	ASTM D695 Modified
	@Temperature 316 °C	@Temperature 601 °F	
	0.500 GPa	72.5 ksi	ASTM D695 Modified
	@Temperature 260 °C	@Temperature 500 °F	
	1.30 GPa	189 ksi	ASTM D695 Modified
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.182 J/cm	0.341 ft-lb/in	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	32.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E831-93
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft <sup>2</sup> -°F	C518/C177
Maximum Service Temperature, Air	>= 316 °C	>= 600 °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	2.98	2.98	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.02	3.02	
	@Frequency 10000 Hz	@Frequency 10000 Hz	ASTM D150
	3.03	3.03	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149
Dissipation Factor	0.0012	0.0012	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0031	0.0031	
	@Frequency 10000 Hz	@Frequency 10000 Hz	ASTM D150
	0.0049	0.0049	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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