

## Saint-Gobain Meldin® 7003 Isostatically Molded Bearing Grade MoS2 Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

### Material Notes:

Meldin® 7003 is a thermosetting polyimide that includes 15% molybdenum disulfide self-lubricating filler for wear applications that operate in a vacuum or in very dry conditions. Meldin® 7000 series materials exhibit extremely high geometric stability at elevated temperatures. Specification Qualifications: Satisfies Type III, Class M for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 5, Form M for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type III, Class M for MIL-R-46198: Resin, Polyimide, Hot Pressed or Pressed and Sintered

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Meldin-7003-Isostatically-Molded-Bearing-Grade-MoS2-Filled-Polyimide.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-7003-Isostatically-Molded-Bearing-Grade-MoS2-Filled-Polyimide.php)

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.24 %	0.24 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	46	46	ASTM D785
Tensile Strength	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Strength	93.8 MPa	13600 psi	ASTM D790
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
	41.4 MPa	6000 psi	0.1% Offset; ASTM D695
	24.8 MPa	3600 psi	ASTM D695
Compressive Strength	@Strain 1.00 %	@Strain 1.00 %	
	124 MPa	18000 psi	ASTM D695
Compressive Modulus	@Strain 10.0 %	@Strain 10.0 %	
	2.50 GPa	363 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	51.7 Åµm/m-Å°C	28.7 Åµin/in-Å°F	ASTM E831
	@Temperature 23.9 - 260 Å°C	@Temperature 75.0 - 500 Å°F	

Thermal Properties

Metric

English

Comments

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