

## Saint-Gobain Meldin® 7022 CM Compression Molded Graphite Filled Polyimide

Category : Polymer , Thermoset , Polyimide, TS

### Material Notes:

Meldin® 7022 CM is a compression molded polyimide that contains 40% graphite filler. This grade offers additional dimensional stability at elevated temperatures and the lowest CTE of any Meldin® 7000 series polyimide. Specification Qualifications: Satisfies Type II, Class 2P for ASTM D 6456-99: Standard Specification for Finished Parts Made from Polyimide Resin Satisfies Class 3, Form P for SAE AMS 3644G: Polyimide, Molded Rod, Bar and Tube, Plaque, and Formed Parts Satisfies Type II, Class 2P for MIL-R-46198: Resin, Polyimide, Hot Pressed or Pressed and Sintered Information provided by Saint-Gobain Performance Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Meldin-7022-CM-Compression-Molded-Graphite-Filled-Polyimide.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-7022-CM-Compression-Molded-Graphite-Filled-Polyimide.php)

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.48 %	0.48 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	5.0 - 20	5.0 - 20	ASTM D785
Tensile Strength	31.0 MPa	4500 psi	ASTM D638
	@Temperature 260 °C	@Temperature 500 °F	
	37.9 MPa	5500 psi	
	@Temperature 190 °C	@Temperature 374 °F	ASTM D638
	48.3 MPa	7000 psi	ASTM D638
	@Temperature 90.0 °C	@Temperature 194 °F	
	55.2 MPa	8000 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.4 %	2.4 %	ASTM D638
	@Temperature 260 °C	@Temperature 500 °F	
	3.0 %	3.0 %	ASTM D638

Mechanical Properties	Metric @Temperature 23.9 Â°C	English @Temperature 75.0 Â°F	Comments
Flexural Strength	48.3 MPa	7000 psi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	89.6 MPa	13000 psi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	5.20 GPa	754 ksi	ASTM D790
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	
Compressive Yield Strength	32.4 MPa	4700 psi	ASTM D695
	@Strain 1.00 %	@Strain 1.00 %	
	107 MPa	15500 psi	ASTM D695
	@Strain 10.0 %	@Strain 10.0 %	
Compressive Modulus	3.30 GPa	479 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E831
	@Temperature 22.8 - 260 Â°C	@Temperature 73.0 - 500 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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