

## Saint-Gobain Meldin® 5320 Thermoplastic Bearing Material

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

### Material Notes:

General Notes on Meldin 3000/5000 Series Bearing Products: Injection Moldable, High-Performance Bearings. Can withstand environments of high temperature, corrosive, and water. Specific Notes on Meldin® 5320 Bearing: Meldin 5320 components supply substantial strength and rigidity. They maintain high tensile, flexural, and compressive properties, even at elevated temperatures. Applications include: Compressor Valve Plates and Valve Rings, Transmission Thrust Washers and Rings, and Vanes for Air Motors and Pumps. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Meldin-5320-Thermoplastic-Bearing-Material.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-5320-Thermoplastic-Bearing-Material.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.11 %	0.11 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	103	103	ASTM D785
Tensile Strength	156 MPa	22600 psi	ASTM D638
Elongation at Yield	2.7 %	2.7 %	ASTM D638
Flexural Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	9.60 GPa	1390 ksi	ASTM D790
Compressive Strength	214 MPa	31000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	215 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	119 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831-93
	@ Temperature 24.0 - 149 $\text{Å}^\circ\text{C}$	@ Temperature 75.2 - 300 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.420 W/m-K	2.91 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	316 $\text{Å}^\circ\text{C}$	601 $\text{Å}^\circ\text{F}$	ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**