

Saint-Gobain Meldin® 5330 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® 5330 Bearing: Specify Meldin 5330 when part requirements include structural integrity and high resistance to thermal expansion. This material exhibits good wear properties and dimensional stability, making it an excellent candidate for bearing applications. 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-5330-Thermoplastic-Bearing-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	107	107	ASTM D785
Tensile Strength	220.5 MPa	31980 psi	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Flexural Strength	354 MPa	51300 psi	ASTM D790
Flexural Modulus	20.0 GPa	2900 ksi	ASTM D790
Compressive Strength	238 MPa	34500 psi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	144 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	80.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E831-93
	@ Temperature 24.0 - 149 $^\circ\text{C}$	@ Temperature 75.2 - 300 $^\circ\text{F}$	
Thermal Conductivity	0.910 W/m-K	6.32 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	316 $^\circ\text{C}$	601 $^\circ\text{F}$	ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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