

Saint-Gobain Meldin® 5055 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® 5055 Bearing: Meldin® 5055 low-friction, wear resistant bearings custom molded from Meldin® 5055 compound perform at high loads and high temperatures with minimal deformation. Meldin® 5055 is self-lubricating, operates quietly, and is resistant to most chemicals and fluids. Information provided by Saint Gobain Performance Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-5055-Thermoplastic-Bearing-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength	112 MPa	16200 psi	ASTM D638
Elongation at Yield	1.2 %	1.2 %	ASTM D638
Tensile Modulus	15.9 GPa	2310 ksi	ASTM D 638
Flexural Strength	14.5 MPa	2100 psi	ASTM D790
	@Temperature 288 Â°C	@Temperature 550 Â°F	
	182 MPa	26400 psi	ASTM D790
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Flexural Modulus	0.860 GPa	125 ksi	ASTM D790
	@Temperature 288 Â°C	@Temperature 550 Â°F	
	14.5 GPa	2100 ksi	ASTM D790
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Compressive Strength	124 MPa	18000 psi	ASTM D695
Compressive Modulus	3.10 GPa	450 ksi	ASTM D695
Poissons Ratio	0.42	0.42	

Thermal Properties	Metric	English	Comments
	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	

CTE linear Thermal Properties	Metric @ Temperature 24.0 - 149 Â°C	English @ Temperature 75.2 - 300 Â°F	ASTM E831-93 Comments
	92.0 Âµm/m-Â°C	51.1 Âµin/in-Â°F	ASTM E831-93
	@Temperature 199 - 299 Â°C	@Temperature 390 - 570 Â°F	
Thermal Conductivity	0.760 W/m-K	5.27 BTU-in/hr-ftÂ²- Â°F	ASTM F433
Maximum Service Temperature, Air	316 Â°C	600 Â°F	UL-746 B
Deflection Temperature at 1.8 MPa (264 psi)	316 Â°C	601 Â°F	ASTM D648

Descriptive Properties	Value	Comments
Hardness, Rockwell K	24.9	ASTM D785

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