

Saint-Gobain Meldin® 1357 Thermoplastic Bearing Material

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Meldin 1357 offers the lowest wear rate and coefficient of friction, which makes it the best candidate for tribological applications. In addition, its self-lubricating properties allow it to operate quietly in dry operating environments. Meldin® 1000 series components are used in appliance applications due to their superior wear life and ability to operate without the need for any oils or lubricants. For scroll tip seal applications, Meldin® 1000 series materials provide some parts with superior wear resistance properties, and superior deformation properties over those of standard PTFE scroll tip seals. In vehicle systems such as transmission bearings or thrust washers, as well as fuel pump bearings, Meldin® 1000 series materials provide performance superior to metallic components. The Meldin 1000 series materials' wear resistance, coupled with their excellent chemical resistance, make them ideal materials for vehicle system components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Meldin-1357-Thermoplastic-Bearing-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D794

Mechanical Properties	Metric	English	Comments
Tensile Strength	23.0 MPa	3340 psi	ASTM D 638
	@Temperature 204 Â°C	@Temperature 399 Â°F	
	38.0 MPa	5510 psi	
	@Temperature 149 Â°C	@Temperature 300 Â°F	ASTM D 638
	86.0 MPa	12500 psi	ASTM D 638
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Elongation at Break	4.5 %	4.5 %	ASTM D 638
Tensile Modulus	86.0 GPa	12500 ksi	ASTM D 638
Flexural Strength	112 MPa	16200 psi	ASTM D 790
Compressive Strength	23.0 MPa	3340 psi	ASTM D 695
	@Temperature 204 Â°C	@Temperature 399 Â°F	
	31.0 MPa	4500 psi	
	@Temperature 149 Â°C	@Temperature 300 Â°F	ASTM D 695
	93.0 MPa	13500 psi	ASTM D 695
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	3.40 $\mu\text{m}/\text{m}\cdot\text{Â}^\circ\text{C}$	1.89 $\mu\text{in}/\text{in}\cdot\text{Â}^\circ\text{F}$	ASTM E831-93
Deflection Temperature at 1.8 MPa (264 psi)	232 $\text{Â}^\circ\text{C}$	450 $\text{Â}^\circ\text{F}$	ASTM D648

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