

Saint-Gobain Meldin® 1277 Thermoplastic Bearing Material

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Meldin 1277 has structural integrity and low deformation. This material also exhibits good electrical insulative properties and dimensional stability. 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-1277-Thermoplastic-Bearing-Material.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D793
Water Absorption	0.010 %	0.010 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength	130 MPa	18900 psi	ASTM D 638
Elongation at Break	0.50 %	0.50 %	ASTM D 638
Flexural Strength	170 MPa	24700 psi	ASTM D 790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	2.50 µm/m-°C	1.39 µin/in-°F	ASTM E831-93
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ASTM D648

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