Saint-Gobain RulonÂ® 123 Grade Bearing/Seal PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Description: RulonÂ® is the Saint-Gobain trade name for their family of proprietary PTFE compounds. This family of materials offers the combination of high compressive strength, low coefficient of friction, and excellent abrasion and corrosion resistance while running without lubrication. They are used in bearing and seal applications from temperature extremes of 400Â°F to over 500Â°F with and without additional lubricants. A unique property of RulonÂ® is the absence of stick slip, that is, erratic low-speed motion. PTFE = polytetrafluoroethylene123 Grade Bearing/Seal PTFE: Formulated for use against soft mating surfaces, Rulon 123 combines a high resistance to deformation with a low coefficient of frictions. It has excellent chemical resistance, is FDA, USDA, and NSF compliant. Good thermal and electrostatic dissipation. Typical applications are refrigeration valve & controls, fuel meters, and automotive electronic sensor seals. Black in color.Suitable for use in environments of steam, wet, dry, or FDA type. Mating surface of steel/stainless steel Rc 25 and higher. Material does not have electrical and thermal insulation properties. Markets for these products include Appliances, Automotive, Dairy/Food/Beverage, Document Processing Equipment, Industrial, Transportation.Information provided by Saint Gobain Performance Products.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-123-Grade-BearingSeal-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/inÂ³	ASTM D792
Water Absorption	0.00 % @Time 86400 sec	0.00 % @Time 24.0 hour	Immersion
Water Absorption at Saturation	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength	17.2 MPa	2490 psi	ASTM D638
Elongation at Break	150 %	150 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.10 - 0.30	0.10 - 0.30	Dry vs. Steel
Coefficient of Friction, Static	0.10 - 0.30	0.10 - 0.30	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	126 Âµm/m-Â°C	70.0 Âµin/in-Â°F	Length

Thermal Properties	Metric	English	Comments
	@Temperature 25.6 - 93.3 Â°C	@Temperature 78.0 - 200 Â°F	
CTE, linear, Transverse to Flow	79.2 Âµm/m-Â°C @Temperature 25.6 - 93.3 Â°C	44.0 Âµin/in-Â°F @Temperature 78.0 - 200 Â°F	Diameter
Thermal Conductivity	0.663 W/m-K	4.60 BTU-in/hr-ftÂ²-Â°F	
Maximum Service Temperature, Air	315 Â°C	599 Â°F	
Minimum Service Temperature, Air	-268 Â°C	-450 Â°F	

Descriptive Properties	Value	Comments
Color	Black	

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