

Saint-Gobain Rulon® 957 Grade Bearing/Seal PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Description: Rulon® 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 400°F to over 500°F with and without additional lubricants. A unique property of Rulon® is the absence of stick slip, that is, erratic low-speed motion. PTFE = polytetrafluoroethylene
 957 Grade Bearing/Seal PTFE: Low friction/wear against coated metal or porcelain surfaces. Appropriate mating surfaces are steel, Rc 25 or higher, or painted metal/porcelain. Suitable for use in environments of steam, wet, dry, or vacuum type. Green in color. Material has electrical and thermal insulation properties. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-957-Grade-BearingSeal-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.25 g/cc	0.0813 lb/in ³	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
Tensile Strength	15.2 MPa	2200 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.15 - 0.25	0.15 - 0.25	Dry vs. Steel
Coefficient of Friction, Static	0.15 - 0.25	0.15 - 0.25	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	112 Åµm/m-Å°C @Temperature 25.6 - 93.3 Å°C	62.0 Åµin/in-Å°F @Temperature 78.0 - 200 Å°F	Length
CTE, linear, Transverse to Flow	63.0 Åµm/m-Å°C @Temperature 25.6 - 93.3 Å°C	35.0 Åµin/in-Å°F @Temperature 78.0 - 200 Å°F	Diameter
Maximum Service Temperature, Air			

Thermal Properties	288 A°C Metric	550 A°F English	Comments
Minimum Service Temperature, Air	-240 A°C	-400 A°F	

Descriptive Properties	Value	Comments
Color	Green	

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