

Saint-Gobain Rulon® LR 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

LR Grade Bearing/Seal PTFE: The best known, most widely used Rulon formulation. Rulon LR has a long reputation for high wear resistance, low friction, good electrical properties and chemical inertness. Not only does it make a great sleeve, flange or thrust bearing, but it can also be bonded to nearly any surface to provide wear resistance and reduce friction. Maroon in color. Suitable for use in environments of steam, wet, dry, vacuum. Mating surface of steel/stainless steel Rc 35 and higher. Material has electrical and thermal insulation properties. Markets for these products include Agricultural, Appliances, Automotive, 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-LR-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
Hardness, Shore D	75	75	
Tensile Strength	10.3 MPa	1490 psi	ASTM D638
Elongation at Break	150 %	150 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Izod Impact, Notched	3.20 J/cm	6.00 ft-lb/in	
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
	112 Åµm/m-Å°C	62.0 Åµin/in-Å°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @ Temperature 25.6 - 93.3 Å°C	English @ Temperature 78.0 - 200 Å°F	Length Comments
	112 Åµm/m-Å°C	62.0 Åµin/in-Å°F	Length
	@Temperature 25.6 - 149 Å°C	@Temperature 78.0 - 300 Å°F	
CTE, linear, Transverse to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	Diameter
	@Temperature 25.6 - 93.3 Å°C	@Temperature 78.0 - 200 Å°F	
	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	Diameter
	@Temperature 25.6 - 149 Å°C	@Temperature 78.0 - 300 Å°F	
Thermal Conductivity	0.331 W/m-K	2.30 BTU-in/hr-ftÅ²- Å°F	
Maximum Service Temperature, Air	288 Å°C	550 Å°F	
Minimum Service Temperature, Air	-240 Å°C	-400 Å°F	

Descriptive Properties	Value	Comments
Color	Maroon	

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