

Saint-Gobain Rulon® F Grade Bearing/Seal PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

F Grade Bearing/Seal PTFE is used for applications requiring a long wearing material, especially in dry applications and those requiring high abrasion resistance. Standard tape liner material for Rulon composite bearings. Green in color. Material has electrical and thermal insulation properties. Suitable for wet, dry or vacuum type environments. Mating surface of Rc 25 or higher steel. Markets for F grade include Appliances, Automotive, Document Processing Equipment, Industrial, Transportation. 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. A property of Rulon® is the absence of stick slip, that is, erratic low-speed motion. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.89 g/cc	0.0683 lb/in ³	
Deformation	3 % @Temperature 23.0 °C, Pressure 10.3 MPa	3 % @Temperature 73.4 °F, Pressure 1500 psi	24 hours

Mechanical Properties	Metric	English	Comments
Tensile Strength	8.27 MPa	1200 psi	ASTM D638
Elongation at Break	160 %	160 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.12	0.12	
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 Åµm/m-°C @Temperature 26.0 - 93.0 °C	35.0 Åµin/in-°F @Temperature 78.8 - 199 °F	Diameter
	64.8 Åµm/m-°C @Temperature 26.0 - 149 °C	36.0 Åµin/in-°F @Temperature 78.8 - 300 °F	Diameter
	112 Åµm/m-°C	62.0 Åµin/in-°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 26.0 - 93.0 Â°C	@ Temperature 78.8 - 199 Â°F	
	126 Âµm/m-Â°C	70.0 Âµin/in-Â°F	Length
	@Temperature 26.0 - 149 Â°C	@Temperature 78.8 - 300 Â°F	
Thermal Conductivity	0.375 W/m-K	2.60 BTU-in/hr-ftÂ²-Â°F	
Maximum Service Temperature, Air	288 Â°C	550 Â°F	
Minimum Service Temperature, Air	-240 Â°C	-400 Â°F	

Descriptive Properties	Value	Comments
Color	Green	

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