

Saint-Gobain Rulon® W2 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

W2 Grade Bearing/Seal PTFE: Specifically developed for fresh water bearing and seal applications, Rulon W2 has the lowest wear rate in wet environment of any standard Rulon. Black in color. Suitable for wet, dry, or vacuum environments. Mating surface of Rc 25 or higher steel/stainless steel. Material does not have electrical and thermal insulation properties. Markets for W2 grade include Appliances, Automotive, Industrial, Transportation. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-W2-Grade-BearingSeal-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 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	12.4 MPa	1800 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.15 - 0.30	0.15 - 0.30	Dry vs. Steel
Coefficient of Friction, Static	0.15 - 0.30	0.15 - 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	108 Åµm/m-Å°C @Temperature 25.6 - 93.3 Å°C	60.0 Åµin/in-Å°F @Temperature 78.0 - 200 Å°F	Length
	113 Åµm/m-Å°C @Temperature 25.6 - 149 Å°C	63.0 Åµin/in-Å°F @Temperature 78.0 - 300 Å°F	Length

Thermal Properties	Metric $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	English $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Comments
CTE, linear, Transverse to Flow	@Temperature 25.6 - 93.3 Å°C	@Temperature 78.0 - 200 Å°F	Diameter
	88.2 Å $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	49.0 Å $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Diameter
	@Temperature 25.6 - 149 Å°C	@Temperature 78.0 - 300 Å°F	
Thermal Conductivity	0.648 W/m-K	4.50 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	Black	

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