

Saint-Gobain Rulon® 488 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

488 Grade Bearing/Seal PTFE: Resistance to high operating temperatures, excellent wear resistance, and compatibility with most mating surfaces, make Rulon 488 non-lubricated dryer bearings the superior solution to the harsh operating environments of veneer dryers. Unlike other bearings, Rulon 488 is specifically designed to prevent expensive downtime caused by thermal shock. When used at extreme temperatures and under heavy loads, Rulon 488 will deform, but will not shatter. This helps to eliminate sudden failures and possible damage to other dryer components. In addition, Rulon 488 bearings last three times longer than conventional carbon bearings-providing significant cost savings in the long run. Rulon 488 bearings are also easy to install and need no maintenance, since they are self-lubricated. Turquoise in color. Suitable for environments of steam, wet, dry, vacuum type. Mating surface of steel/stainless steel Rc 25 and higher, or painted metal/porcelain surfaces. Material has electrical and thermal insulation properties. Markets for 488 grade include Aerospace & Aviation, Agricultural, Appliances, Dairy/Food/Beverage, Industrial. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-488-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	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	175 %	175 %	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
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@Temperature 25.6 - 93.3 Å°C	@Temperature 78.0 - 200 Å°F	Length
	126 Åµm/m-Å°C	70.0 Åµin/in-Å°F	Length
CTE, linear, Transverse to Flow	@Temperature 25.6 - 149 Å°C	@Temperature 78.0 - 300 Å°F	Diameter
	93.6 Åµm/m-Å°C	52.0 Åµin/in-Å°F	Diameter
Thermal Conductivity	@Temperature 25.6 - 93.3 Å°C	@Temperature 78.0 - 200 Å°F	Diameter
	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	Diameter
Thermal Conductivity	0.375 W/m-K	2.60 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	Turquoise	

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