

Saint-Gobain Rulon® FCJ Grade Bearing/Seal PTFE (discontinued **)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Saint Gobain Rulon® CJ is now produced as a part of the TriStar Plastics Corp. product line under the CJ Bearings trade name. 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. FCJ: Identical composition to RULON CJ except the innermost layer is a RULON F tape liner instead of the synthetic fiber/PTFE liner. Ideally suited for non-lubricated moderate-load/high-speed applications that require a low coefficient of friction. Rc 25 and higher steel mating surface. Material has thermal and electrical insulating properties. Suitable for use in wet, dry, or vacuum environments. Markets for FCJ grade include Agricultural, Appliances, Automotive, Construction, Industrial, Transportation.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Water Absorption	0.50 %	0.50 %	Immersion
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	138 MPa	20000 psi	Max load under tribological use
Compressive Strength	345 MPa	50000 psi	
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	
Limiting Pressure Velocity	0.701 MPa-m/sec	20000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 µm/m-°C	7.00 µin/in-°F	
Thermal Conductivity	0.202 W/m-K	1.40 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	177 °C	350 °F	
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	350 °F	
Minimum Service Temperature, Air	-196 °C	-320 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+18 ohm-cm	2.40e+18 ohm-cm	

Electrical Properties	Metric 15 ohm	English 5 ohm	Comments
Dielectric Constant	4.15 @Frequency 1.00e+6 Hz	4.15 @Frequency 1.00e+6 Hz	
Dielectric Strength	7.87 kV/mm	200 kV/in	Short Term

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