

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

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

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 E Grade Bearing/Seal PTFE: Lowest deformation at elevated temperatures of any Rulon. Gray in color. Material does not have thermal or electrical insulating properties. Suitable for use in steam, wet, dry, or vacuum environments. Rc 35 or higher steel mating surface. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	2.26 g/cc	0.0816 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	13.8 MPa	2000 psi	
Elongation at Break	100 %	100 %	
Tensile Modulus	1.65 GPa	240 ksi	
Flexural Strength	4.14 MPa	600 psi	
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
	10.3 MPa @Strain 10.0 %	1500 psi @Strain 10.0 %	
Izod Impact, Notched	3.20 J/cm	6.00 ft-lb/in	
Coefficient of Friction, Dynamic	0.25	0.25	Dry vs. Steel
Coefficient of Friction, Static	0.20	0.20	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.403 W/m-K	2.80 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa	121 °C	250 °F	

(264 psi)			
Thermal Properties	Metric	English	Comments
Electrical Properties			
	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	2.5	2.5	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	10.8 kV/mm	275 kV/in	Short Term
Descriptive Properties			
	Value	Comments	
Color	Grey		

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