

Saint-Gobain Rulon® 1410 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

1410 Grade Bearing/Seal PTFE: A standard material for compressor piston flip seals. Gold in color. Material has thermal and electrical insulating properties. Suitable for use in steam, wet, dry, or vacuum environments. Rc 25 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-1410-Grade-BearingSeal-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	14.8 MPa	2150 psi	ASTM D638
Elongation at Break	210 %	210 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.10 - 0.20	0.10 - 0.20	Dry vs. Steel
Coefficient of Friction, Static	0.10 - 0.20	0.10 - 0.20	Dry vs. Steel
Limiting Pressure Velocity	0.263 MPa-m/sec	7500 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	128 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	71.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Length
	@Temperature 25.6 - 93.3 $\text{Å}^\circ\text{C}$	@Temperature 78.0 - 200 $\text{Å}^\circ\text{F}$	
	135 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Length
	@Temperature 25.6 - 149 $\text{Å}^\circ\text{C}$	@Temperature 78.0 - 300 $\text{Å}^\circ\text{F}$	
	155 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	86.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Length
	@Temperature 25.6 - 260 $\text{Å}^\circ\text{C}$	@Temperature 78.0 - 500 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	128 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	71.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Diameter

Thermal Properties	Metric @Temperature 25.6 - 99.9 Â°C	English @Temperature 78.0 - 200 Â°F	Comments
	135 Âµm/m-Â°C	75.0 Âµin/in-Â°F	Diameter
	@Temperature 25.6 - 149 Â°C	@Temperature 78.0 - 300 Â°F	
	155 Âµm/m-Â°C	86.0 Âµin/in-Â°F	Diameter
	@Temperature 25.6 - 260 Â°C	@Temperature 78.0 - 500 Â°F	
Thermal Conductivity	0.259 W/m-K	1.80 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	Gold	

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