

## Saint-Gobain Rulon® 1045 Bearing/Seal PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

### Material Notes:

Rulon® 1045 is a dull gold material that has an excellent ability to elongate in a flip seal application. Coupled with excellent frictional characteristics, it offers the added benefit of energy savings, as well as increased sealing efficiency. This material is also resistant to many harsh chemicals found in the application environments where it is typically used. It is also compatible with most commercially available lubricants for additional reduction in friction. Its low deformation properties allow it to be effective as a bearing or sliding surface.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Rulon-1045-BearingSeal-PTFE.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-1045-BearingSeal-PTFE.php)

Physical Properties	Metric	English	Comments
Density	2.11 g/cc	0.0762 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	450 %	450 %	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	0.350 MPa-m/sec	9990 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 $\mu\text{m/m-}^\circ\text{C}$	65.0 $\mu\text{in/in-}^\circ\text{F}$	Length
	@Temperature 25.6 - 93.3 $^\circ\text{C}$	@Temperature 78.0 - 200 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	117 $\mu\text{m/m-}^\circ\text{C}$	65.0 $\mu\text{in/in-}^\circ\text{F}$	Diameter
	@Temperature 25.6 - 93.3 $^\circ\text{C}$	@Temperature 78.0 - 200 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
Application Environment	Dry	
	Vacuum	
	Wet	
Color	Dull Gold	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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