

## Saint-Gobain Rulon® 142 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

142 Grade Bearing/Seal PTFE: A material for extremely heavy loads. Rulon 142 is ideal for linear bearing applications such as slideways in machine tools and heavy equipment. Excellent mechanical properties, good dimensional stability, and high thermal dissipation make Rulon 142 an ideal choice for highload linear bearings that require low creep properties. Turquoise in color. Material does not have electrical and thermal insulation properties. Suitable for steam, wet, dry, or vacuum environments. Rc 35 or high steel mating surface. Markets for 142 grade include Appliances, Automotive, Industrial, Transportation. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Rulon-142-Grade-BearingSeal-PTFE.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-142-Grade-BearingSeal-PTFE.php)

Physical Properties	Metric	English	Comments
Density	3.11 g/cc	0.112 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength	21.4 MPa	3100 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Tensile Modulus	1.59 GPa	230 ksi	
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Coefficient of Friction, Dynamic	0.025	0.025	Dry vs. Steel
Coefficient of Friction, Static	0.025	0.025	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.2 Åµm/m-Å°C	49.0 Åµin/in-Å°F	Length
CTE, linear, Transverse to Flow	88.2 Åµm/m-Å°C	49.0 Åµin/in-Å°F	Diameter
Thermal Conductivity	0.692 W/m-K	4.80 BTU-in/hr-ftÅ²-Å°F	

Maximum Service Temperature, Air Thermal Properties	288 Å°C Metric	550 Å°F English	Comments
Minimum Service Temperature, Air	-240 Å°C	-400 Å°F	

Descriptive Properties	Value	Comments
Color	Turquoise	

## Contact Songhan Plastic Technology Co.,Ltd.

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