

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

Category : Polymer , Thermoplastic

### Material Notes:

An injection moldable bearing material that possesses excellent chemical and wear resistance. Rulon II is available in injection molded finished parts only. Excellent friction and wear properties along with mechanical stiffness, good thermal properties and chemical resistance very close to PTFE and PEEK. Information provided by distributor TriStar Plastics Corp.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	
Water Absorption	0.030 % @Time 86400 sec	0.030 % @Time 24.0 hour	Immersion

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	176 MPa	25500 psi	
Elongation at Break	100 %	100 %	
Tensile Modulus	1.72 GPa	250 ksi	
Flexural Strength	193 MPa	28000 psi	
Flexural Modulus	13.8 GPa	2000 ksi	
Compressive Yield Strength	15.5 MPa @Strain 10.0 %	2250 psi @Strain 10.0 %	
Shear Strength	55.2 MPa	8000 psi	
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	
Coefficient of Friction, Dynamic	0.27	0.27	Dry vs. Steel
Coefficient of Friction, Static	0.23	0.23	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear	144 Åµm/m-Å°C	80.0 Åµin/in-Å°F	
Thermal Conductivity	0.778 W/m-K	5.40 BTU-in/hr-ftÅ²-Å°F	

Maximum Service Temperature, Air Thermal Properties	204 Â°C Metric	400 Â°F English	Continuous Comments
	218 Â°C	425 Â°F	Short Term
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	
Minimum Service Temperature, Air	-51.1 Â°C	-60.0 Â°F	Embrittlement Temp
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	
Dielectric Constant	2.5 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	
Dielectric Strength	13.8 kV/mm	350 kV/in	Short Term

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China