

## Saint-Gobain Rulon® DC1042 Bearing/Seal PTFE

Category : Polymer , Thermoplastic

### Material Notes:

Can be used in a wide range of sealing and bearing applications. Rulon DC1042 is ideal for applications in which the bearing, seal is in contact with harsh chemicals or in applications where electrical conductivity is needed. Very popular material for valve seats and stem bushings in oil and gas valves and in compressor components. Information provided by distributor TriStar Plastics Corp.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Rulon-DC1042-BearingSeal-PTFE.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-DC1042-BearingSeal-PTFE.php)

Physical Properties	Metric	English	Comments
Density	1.96 g/cc	0.0708 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	10.3 MPa	1500 psi	
Elongation at Break	40 %	40 %	
Tensile Modulus	1.38 GPa	200 ksi	
Compressive Yield Strength	12.9 MPa @Strain 10.0 %	1870 psi @Strain 10.0 %	
Izod Impact, Notched	2.94 J/cm	5.50 ft-lb/in	
Coefficient of Friction, Static	0.030	0.030	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	10000 psi-ft/min	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	288 Â°C	550 Â°F	Continuous
	316 Â°C	600 Â°F	Short Term
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	
Minimum Service Temperature, Air	-240 Â°C	-400 Â°F	Embrittlement Temp
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistance	400 ohm	400 ohm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	13.8 kV/mm	350 kV/in	Short Term

Descriptive Properties	Value	Comments
Color	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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