

Saint-Gobain Rulon® AR Bearing/Seal PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Rulon® AR is somewhat more flexible than Rulon® LR, hence suitable for seals and bonded coating of slide surfaces. It has many decades of use in automotive shaft seals and fuel metering pump cups. Rulon AR has a practically universal chemical inertness like that of Rulon LR and provides long life and reliability in continuous non-lubricated service. It is capable of operating at PV values up to approximately 10,000 psi-ft/min. Higher PV values are possible for intermittent use applications. Key Attributes: Universal chemical inertness Long life and reliability in continuous non-lubricated service More flexible than Rulon® LR Working Temperature Range: -240° to +288°C [-400° to +550°F]

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Rulon-AR-BearingSeal-PTFE.php

Physical Properties	Metric	English	Comments
Density	2.22 g/cc	0.0802 lb/in ³	ASTM D792
Water Absorption	0.00 % @Time 86400 sec	0.00 % @Time 24.0 hour	Immersion
Water Absorption at Saturation	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	175 %	175 %	ASTM D638
Compressive Yield Strength	6.89 MPa	1000 psi	Max load under tribological use
Izod Impact, Notched	3.20 J/cm	6.00 ft-lb/in	
Coefficient of Friction, Dynamic	0.15 - 0.25	0.15 - 0.25	Dry vs. Steel
Coefficient of Friction, Static	0.15 - 0.25	0.15 - 0.25	Dry vs. Steel
Limiting Pressure Velocity	0.350 MPa-m/sec	9990 psi-ft/min	Max velocity is 2.0 m/s (400 fpm)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.331 W/m-K	2.30 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	288 °C	550 °F	
Minimum Service Temperature, Air	-240 °C	-400 °F	

Descriptive Properties	Value	Comments
Color	Light Maroon	

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