

Rulon XL is a tan colored material that is best for use against aluminum (including anodized) substrates. It exhibits very low wear relative to other Rulon grades.

Other advantages offered by this unique material are that it combines low deformation under load with exceptionally good chemical resistance.

It is compatible with a wide range of mating surfaces and its non-abrasive character enhances the frictional performance to prevent galling of softer mating surfaces.

Features

- Color: Tan
- Extreme load tolerance
- Low wear and deformation
- Exceptionally good chemical resistance
- Excellent outgassing capability
- The best Rulon material for vacuum service
- Not recommended for use with alkalis



Technical Specifications

Property	Value	Unit
Temperature - Typical Range	-400/+550 (-240/+288)	°F (°C)
Maximum PV (continuous)	10,000/0.35	psi/fpm (MPa•m/s)
Maximum P - psi (static)	1,200 (8.3)	psi (MPa)
Maximum V -SFM (no load)	400 (2)	ft/min (m/s)
Shaft finish recommended RMS/Ra	8 - 16 (0.2-0.4)	µin(µm)
Shaft Hardness - Minimum	Rb25	Rockwell B
Shaft Material	All Steels and aluminum	
Engineering Information		
Friction - static & dynamic	0.10 - 0.25	
Water Absorption ASTM D570	0	%
Flammability ASTM D635	Non-Flammable	UL V-O
Chemical Resistance	Inert	
Thermal Conductivity	1.7 (0.24)	BTU/hr/sq. ft./°F/in. (W/m•K)
Linear Coefficient of Thermal Expansion 78° to 400°F (26° to 204°C)	Diameter 6.4 (11.5) Length 6.8 (12.2)	x 10 ⁻⁵ in/in °F (x 10 ⁻⁵ m/m °C)
Physical Data		
Elongation ASTM D4894	160	%
Tensile Strength ASTM D4894	1700 (11.7)	psi (MPa)
Deformation ASTM 621	1.4 (1500)	% (psi - 24 hr. RT)
Specific Gravity ASTM D792	1.97	gram/cu. cm

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CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



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