

RULON® J



Rulon® J is an all-polymeric reinforced, dull gold colored PTFE compound that operates exceptionally well against soft mating surfaces such as 316 stainless steel, aluminum, mild steel, brass and other plastics. The unique "shaft friendly" material is also low in friction and wear and self-lubricating.

Rulon® J has one of the lowest coefficients of friction of most reinforced PTFE materials. This makes it ideally suited for start/stop applications where stick-slip must be eliminated. The tribological properties of this material also make it suitable for both bearing and wear component applications.

TYPICAL PRODUCT AND APPLICATION DESCRIPTION

PRODUCTS	APPLICATIONS
<ul style="list-style-type: none"> Automatically molded bearings & components Sleeve, flanged and thrust bearings Piston Rings Stamped and formed seals Extruded shapes Machined parts Molded shapes 	<ul style="list-style-type: none"> Printers Copiers Air Compressors Appliances Automotive Insulators Linear slides Anemometers Wear bands

DESIGN CRITERIA RULON J

Temperature - Typical Range °F (°C)	-400/+550 (-240/288)*
Maximum PV (continuous)(MPa•m/s)	7,500 (0.26)*
Maximum P - psi (static)(MPa)	750 (5.2)*
Maximum V - SFM (no load)(m/s)	400 (2)*
Shaft Hardness - Minimum	Rb25
Shaft finish recommended Ra (μ"/μm)	8 - 16 (0.2-0.4)*
Shaft Material	316 Stainless Steel and Non-Ferrous

ENGINEERING INFORMATION

Friction - static & dynamic	.12 - .20
Water Absorption ASTM D570	0%
Flammability ASTM D635	Non-Flammable
Chemical Resistance	Chart Available
Thermal Conductivity BTU/hr/sq. ft./°F/in.	2.0
Linear Coefficient of Thermal Expansion (78°-200°F)	Diameter 4.9x10 ⁻⁵ (8.8)*
(26° -93°C)	Length 6.5x10 ⁻⁵ (11.7)*
(78° -300°F)	Diameter 5.2x10 ⁻⁵ (9.4)*
(26° -149°C)	Length 6.8x10 ⁻⁵ (12.2)*

PHYSICAL DATA

Elongation ASTM D638	180%
Tensile Strength ASTM D638(MPa)	2000 PSI (13.8)*
Deformation (1500 psi - 24 hr. RT)	3%
Specific Gravity	1.95

A more complete data sheet is available upon request.

*Metric measurements in parentheses