Rulon® J

Rulon® J is an all-plymeric 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.

Products

Automatically molded bearings and components Sleeve, flanged and thrust bearings
Piston rings Stamped and formed seals Extruded Shapes
Machined Parts Molded Shapes

Applications

Printers Copiers Air Compressors Appliances Automotive
Insulators Linear slides Anemometers Wear Bands

Property	Test Method	Units	**Rulon® J**
Design Criteria			
Temperature Range		°F	-400 – 550
Maximum PV (cont.)			7,500
Maximum P (static)		psi	750
Maximum V (no load)		ft^2/m	400
Shaft Hardness (Minimum)			Rb25
Shaft finish (Recommended Ra)		µ"/µm	8 - 16
Shaft Material			316 Stainless Steel and Non-Ferrous
Engineering Information			
Static Coefficient of Friction			0.12
Dynamic Coefficient of Friction			0.20
Water Absorption	ASTM D570	%	0
Flammability	ASTM D635		Non-flammable
Chemical Resistance			Chart Available
Thermal Conductivity		BTU/hr/ft^2/°F/in	2.0
Linear Coefficient of Thermal Expansion 78°F – 200°F Diameter, Length 78°F – 300°F Diameter, Length			 4.9 x 10^-5, 6.5 x 10^-5 5.2 x 10^-5, 6.8 x 10^-5
Physical Data			
Elongation	ASTM D638	%	180
Tensile Strength	ASTM D638	psi	2,000
Deformation, 1500 psi, 24hr, RT	ASTM D621	%	3
Specific Gravity	ASTM D792		1.95

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.