

RULON® 641

Rulon® 641 is manufactured from FDA compliant materials which possess excellent load and wear characteristics.

It offers excellent, continuous non-lubricated service up to 10,000 PV - higher for intermittent service. While the load capacity of Rulon 641 is generally limited to 1,000 psi at room temperature, deformation is a function of wall thickness, temperature and load.

Its compatibility with a wide array of mating surfaces, including mild steel, 303 and 316 stainless steels, as well as harder materials, make it a good choice for most food and pharmaceutical bearing applications.



DESIGN CRITERIA RULON 641

Temperature - Typical Range °F (°C)	-400/+550 (-240/288)*
Maximum PV (continuous)(MPa•m/s)	10,000 (0.35)*
Maximum P - psi (static)(MPa)	1,000 (6.9)*
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	Mild, 303 & 316 Stainless Steel

ENGINEERING INFORMATION

Friction - static & dynamic	.10 - .30
Water Absorption ASTM D570	0%
Flammability ASTM D635	Non-Flammable
Chemical Resistance	Inert
Thermal Conductivity BTU/hr/sq. ft./°F/in.	2.6
Linear Coefficient of Thermal Expansion (78° -200°F) (26° -93°C)	Diameter 3.9x10 ⁻⁵ (7.0)* Length 4.9x10 ⁻⁵ (8.8)*
(78° -300°F) (26° -149°C)	Diameter 4.2x10 ⁻⁵ (7.6)* Length 5.7x10 ⁻⁵ (10.3)*

PHYSICAL DATA

Elongation ASTM D638	175%
Tensile Strength ASTM D638(MPa)	2000 PSI (19.8)*
Deformation (1500 psi - 24 hr. RT)	4%
Specific Gravity	2.25

A more complete data sheet is available upon request.

*Metric measurements in parentheses

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"> Pumps Mixers Compressors Appliances Chute Liners Insulators Linear slides Shaft bearings Wear bands Seals