RULON® LR

Rulon® LR is a maroon colored bearing material best known for its versatile design properties. It is compatible with most hardened steel substrates. Mild steel is acceptable; harder runningsurfaces are better. Rulon® has a practically universal chemical inertness. Of the chemicals encountered in commercial practice, only molten sodium and fluorine, atelevated temperatures and pressures, show any signs of attack. For continuous non-lubricated service, RULON® LR sleeve bearings are capable of operating up to 10,000 PV. Higher values are possible for intermittent service.

Design CriteriaRulon LR

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)*
ShaftHardness - Minimum	Rc35
Shaftfinish recommended Ra (min/um)	8 - 24 (0.2-0.6)*
ShaftMaterial	Steel
Engineering Information	
Friction - static & dynamic	.15 - .25
Water Absorption ASTM D570	0%
Flammability ASTM D635	Non-Flammable
Chemical Resistance	Inert
Thermal Conductivity BTU/hr/sq.ft./˚F/in.	2.3
Linear Coefficientof Thermal Expansion (78˚-200˚F) (26˚ -93˚C) (78˚-300˚F) (26˚-149˚C)	Diameter $3.5x10^{-5}$ (6.3)* Length $6.2x10^{-5}$ (11.2)* Diameter $3.5x10^{-5}$ (6.3)* Length $6.2x10^{-5}$ (11.2)*
Physical Data	
Elongation ASTM D638	135%
Tensile Strength ASTM D638 (MPa)	2000 psi (13.8)*
Deformation (1500psi - 24hr.RT)	3%
Specific Gravity	2.25

A more complete data sheetis available upon request.

*Metric measurements in parentheses

Typical Product andApplication Description

Products	Applications
• Automatically molded bearings & components	Pumps Mixers
• Sleeve,flanged and thrust bearings	Compressors Appliances
• Piston Rings	Automotive
• Stamped and formed seals	Insulators
• Extruded shapes	Linear slides
• Machined parts	Pipe supports
• Molded shapes	Wear bands