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 running surfaces are better.

Rulon® has a practically universal chemical inertness. Of the chemicals encountered in commercial practice, only molten sodium and fluorine, at elevated temperatures and pressures, show any signs of attack.

For continuaus non-lubricated service, Rulon® LR sleeve bearings are capable of operating up to 10,000 PV. Higher values are possible for intermittent service.

Products

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

Applications

Pumps	Mixers	Compressors	Appliances	Automotive
Insulators	Linear slides	Pipe support	Wear Bands	

Property	Test Method	Units	**Rulon® LR**
Design Criteria			
Temperature Range		°F	-400 – 500
Maximum PV (cont.)			10,000
Maximum P (static)		psi	1,000
Maximum V (no load)		ft^2/m	400
Shaft Hardness (Minimum)			Rc35
Shaft finish (Recommended Ra)		µ"/µm	0.2 – 0.6
Shaft Material			Steel
Engineering Information			
Static Coefficient of Friction			0.15
Dynamic Coefficient of Friction			0.25
Water Absorption	ASTM D570	%	0
Flammability	ASTM D635		Non-flammable
Chemical Resistance			Inert
Thermal Conductivity		BTU/hr/ft^2/°F/in	2.3
Linear Coefficient of Thermal Expansion 78°F – 200°F Diameter, Length 78°F – 300°F Diameter, Length			 3.5 x 10^-5, 6.2 x 10^-5 3.6 x 10^-5, 7.0 x 10^-5
Physical Data			
Elongation	ASTM D638	%	135
Tensile Strength	ASTM D638	psi	2,000
Deformation, 1500 psi, 24hr, RT	ASTM D621	%	3
Specific Gravity	ASTM D792		2.25

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.