

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 continuous 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
- Piston rings
- Machined Parts
- Sleeve, flanged and thrust bearings
- Stamped and formed seals
- Extruded Shapes
- Molded Shapes

Applications

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

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. All values at 73°F (23°C) unless otherwise noted.