

Rulon® AR

Rulon® AR is a light maroon colored material best known as the current version of the first Rulon introduced, namely Rulon® A. It is somewhat more flexible than Rulon® LR, hence suitable for seals and bonded coating of slide surfaces. It has many decades of use in automotive shaft seals and fuel metering pump cups.

Rulon® has a practically universal chemical inertness like that of Rulon® LR and provides long life and reliability in continuous non-lubricated service. It is capable of operating at PV values up to approximately 10,000. Higher PV values are possible for intermittent use applications.

Products

Automatically molded bearings and components
 Piston/Piston rings Stamped/Machined formed seals Extruded Shapes
 Machined Parts Molded Shapes Skived Sheet

Applications

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

Property	Test Method	Units	Rulon® AR
Design Criteria			
Temperature Range		°F	-400 – 550
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	8 - 24
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			4.1 x 10 ⁻⁵ , 5.5 x 10 ⁻⁵
78°F – 300°F Diameter, Length			4.8 x 10 ⁻⁵ , 6.2 x 10 ⁻⁵
Physical Data			
Elongation	ASTM D638	%	175
Tensile Strength	ASTM D638	psi	2,000
Deformation, 1500 psi, 24hr, RT	ASTM D621	%	5
Specific Gravity	ASTM D792		2.22

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.