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**SAINT - GOBAIN**

**Rulon® LR** - This is a maroon colored bearing best known for its versatile design properties. It is compatible with most hardened steel substances. 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.

**Rulon® J** - This is the best Rulon grade for aluminum and soft mating surfaces. Rulon® J provides the lowest coefficient of friction of all Rulons, and provides good wear and abrasion resistance. Because this grade is "all plastic", it can be run on non-ferrous and non-metallic mating surfaces such as 316 Stainless, brass, and other plastics. It is used in both bearing and seal applications, but is generally not suitable for use in alkaline or oxidizing acid solutions. DULL GOLD in color.

**Rulon® K** - Light tan in color and predominantly used as a seal for high temperatures. Material strength improves as temperatures increase with applications at 500°F continuous possible. Good flexibility, chemical resistance and very low coefficient of friction.

### APPLICATIONS INCLUDE:

· Seals For High Temperatures · Bearings · Bushings · Cams · Cam Followers · Gears · Guides · Insulators · Liners · Rollers · Seals · Sleeves · Thrust Washers · Valve Seats · Wear Surfaces

GENERAL PROPERTIES	ASTM or UL Test	RULON® LR Typical Values	RULON® J Typical Values	RULON® K Typical Values
<b>COLOUR</b>		● Maroon	● Dull Gold	● Light Tan
<b>PHYSICAL</b>				
Specific Gravity (g/cm <sup>3</sup> )	D792	2.27	1.95	2.03
Water Absorption, 24 hrs (%)	D570	0	0	0
<b>MECHANICAL</b>				
Tensile Strength (psi)	D1457	1,500	2,000	2,400
Tensile Elongation at Yield (%)	D1457	150	180	205
Hardness, Shore D	D2240	60-75	59	59
IZOD Notched Impact (ft-lb/in)	D256	6	-	-
<b>THERMAL</b>				
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	D696	-	-	3.6
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	Cenco-Fitch	2.3	1.7	1.72
<b>ELECTRICAL</b>				
Dielectric Strength (V/mil) short time, .08" thk	D149	400-500	200	-
Dielectric Constant at 1 MHz	D150	2.5	2.4	-
Dissipation Factor at 1 MHz	D150	0.003	0.001	-
Surface Resistivity (ohm/sq)	D257	2 x 10 <sup>13</sup>	6 x 10 <sup>18</sup>	-
Volume Resistivity (ohm-cm) at 50% RH	D257	1 x 10 <sup>15</sup>	8 x 10 <sup>18</sup>	-
<b>RECOMMENDED OPERATING LIMITS</b>				
Maximum Load (psi)	-	1,000	1,000	1,000
Maximum Velocity with No Pressure (ft/min)	-	400	400	400
Maximum PV Rating (psi x ft/min)	-	10,000	10,000	10,000
Maximum Operating Temp (°F / °C)	-	500 / 260	500 / 260	500 / 260
Minimum Operating Temp (°F / °C)	-	-450 / -240	-450 / -240	-450 / -240
Minimum Mating Surface Hardness (Rockwell)	-	C35	B25	C35

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.