RULON® 123

Rulon® 123 is a glossy black non-abrasive compound for softer mating surfaces, such as stainless steel. This material has excellent chemical resistance and is FDA, USDA, and NSF compliant. It is less expensive than Rulon J, but is slightly less flexible and higher in wear.

It has a high resistance to deformation, low coefficient of friction and good thermal and electrostatic dissipation. This material has a maximum operating temperature of 550˚F (300˚C).

Rulon 123 releases black wear debris over time and should not be used in ultra-dry, vacuum applications, or where electrical insulation is desired.

Design Criteria Rulon 123

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)*
Shaft Hardness - Minimum	Rb25
Shaft finish recommended Ra (µ"/µm)	8 - 16 (0.2-0.4)
Shaft Material	Steel
Engineering Information	
Friction - static & dynamic	.10 - .30
Water Absorption ASTM D570	0%
Flammability ASTM D635	Non-Flammable
Chemical Resistance	Inert
Thermal Conductivity BTU/hr/sq. ft./˚F/in.	4.6
Linear Coefficient of Thermal Expansion (78˚-200˚F) (26˚ -93˚C)	Diameter $4.4x10^{-5}$ (7.9)* Length $7.0x10^{-5}$ (12.6)*
Physical Data	
Elongation ASTM D638	150%
Tensile Strength ASTM D638(MPa)	2500 psi (17.2)*
Deformation (1500 psi - 24 hr. RT)	2.5%
Specific Gravity	2.12

A more complete data sheet is available upon request.
**Metric measurements in parentheses*

Typical Product and Application Description

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