

RULON® 945

Rulon® 945 is a black PTFE-based material that has very low wear and deformation under load, making it ideally suited for demanding thermal applications. In fact, its deformation is the lowest of all Rulon® grades. It also possesses excellent chemical resistance and good dimensional stability.

Rulon® 945 is best suited for use against hard mating surfaces, like hardened steel substrates since it does have moderate abrasive qualities. It is not suitable in applications where electrically insulating properties are required.



DESIGN CRITERIA RULON 945

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	Rc35
Shaft finish recommended Ra (μ"/μm)	8 - 24 (0.2-0.6)*
Shaft Material	Steel
ENGINEERING INFORMATION	
Friction - static & dynamic	.20-.35
Flammability ASTM D635	Non-Flammable
Chemical Resistance	Excellent
Thermal Conductivity BTU/hr/sq. ft./°F/in.	4.8
Linear Coefficient of (78°-200°F)	Diameter 7.1x10 ⁻⁵ (12.8)*
Thermal Expansion (26° -93°C)	Length 2.8x10 ⁻⁵ (5.0)*
PHYSICAL DATA	
Elongation ASTM D638	20%
Tensile Strength ASTM D638(MPa)	2000 PSI (13.8)*
Deformation (1500 psi - 24 hr. RT)	0.7%
(1500 psi - 24 hr.RT)	1.4%
Specific Gravity	1.90

A more complete data sheet is available upon request.

*Metric measurements in parentheses

TYPICAL PRODUCT AND APPLICATION DESCRIPTION

PRODUCTS	APPLICATIONS
<ul style="list-style-type: none"> Automatically molded bearings & components Sleeve, flanged and thrust bearings Piston Rings Stamped and formed seals Extruded shapes Machined parts Molded shapes 	<ul style="list-style-type: none"> Pumps Mixers Compressors Appliances Automotive Insulators Linear slides Pipe supports Wear bands