

MATERIAL DATASHEET

RULON® LR

Features: Color: Maroon, Compatible with most hardened steel substrates, Chemical inertness

Benefits: Long life and reliability in continuous non-lubricated applications

Working Temperature Range: -240° to +288°C [-400° to +550°F]

Properties	Test Methods	Typical Values	Units
PHYSICAL			
Specific Gravity	ASTM D792	2.25	--
Hardness	ASTM D2240	55 – 65	Shore D
Water Absorption, 24hr	ASTM D570	0	%
MECHANICAL			
Tensile Strength	ASTM D4894	14.5 [2100]	MPa [psi]
Elongation	ASTM D4894	180	%
Compressive Stress @ 1% Strain	ASTM D695	7.0 [1010]	MPa [psi]
Compressive Modulus	ASTM D695	0.7 [1.0]	GPa [psi x 10 ⁵]
Flexural Stress @ 1% Strain	ASTM D790	6.2 [900]	MPa [psi]
Flexural Modulus	ASTM D790	0.6 [0.9]	GPa [psi x 10 ⁵]
Deformation under load, 1500 psi & RT	ASTM D621	3	%
THERMAL			
Flammability	ASTM D635	Non-flammable	m/s [in/min]
Linear Coefficient of Thermal expansion 26°to 149°C [78°to 300°F] Diameter	ASTM D696	13.6/9.5 [7.6/5.3]	m/m/°C x 10 ⁻⁵ [in/in/°F x 10 ⁻⁵]
ELECTRICAL			
Dielectric Constant (Freq. = 1 MHz)	ASTM D150	2.1	-
Dielectric Strength (2.5 mm [0.010"] thick)	ASTM D149	11.4 [290]	MV/m [V/mil]
Dissipation Factor (Freq. = 1 MHz)	ASTM D149	0.001 - 0.002	-
TRIBOLOGICAL			
Coefficient of Friction	-	0.20 – 0.45	-
OPERATING LIMITS MATING SURFACE			
Maximum Pressure	-	6.9 [1000]	MPa [psi]
Maximum Velocity (no pressure)	-	2 [400]	m/s [ft/min]
Maximum PV	-	0.35 [10,000]	MPa x m/s [psi x ft/min]
Rockwell / Brinnell Scale	-	Rc 35 / 327	Minimum

The table above represents typical values, intended for reference only. They should NOT be used as a basis for design specifications or quality control. Rulon® is a registered trademark. © 2024 Omniseal Solutions.