

MATERIAL DATASHEET

RULON® 123

- Features:** Black, Recommended for moderate to low-speed service running against soft or hard metals
- Benefits:** Excellent Heat & Chemical Resistance
FDA Compliant
- Working Temperature Range:** -240°to +288°C [-400°to +550°F]

Properties	Test Methods	Typical Values	Units
PHYSICAL			
Specific Gravity	ASTM D792	2.12	--
Hardness	ASTM D2240	55 – 65	Shore D
Water Absorption, 24hr	ASTM D570	0	%
MECHANICAL			
Tensile Strength	ASTM D4894	20.7 [3,000]	MPa [psi]
Elongation	ASTM D4894	160	%
Compressive Stress @ 1% Strain	ASTM D695	6.9 [1000]	MPa [psi]
Compressive Modulus	ASTM D695	0.8 [1.1]	GPa [psi x 10 ⁵]
Flexural Stress @ 1% Strain	ASTM D790	6.4 [925]	MPa [psi]
Flexural Modulus	ASTM D790	0.6 [0.85]	GPa [psi x 10 ⁵]
Deformation under load, 1500 psi & RT	ASTM D621	2.5	%
THERMAL			
Flammability	ASTM D635	Non-flammable	m/s [in/min]
TRIBOLOGICAL			
Coefficient of Friction	-	0.10-0.30	-
OPERATING LIMITS MATING SURFACE			
Maximum Pressure	-	6.9 [1,000]	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	-	Rb25/64	Minimum

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