

MATERIAL DATASHEET

RULON® W2

Features: Black, Low friction and excellent wear characteristics

Benefits: Compatible with most metal substrates and soft mating surfaces

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

Properties	Test Methods	Typical Values	Units
PHYSICAL			
Specific Gravity	ASTM D792	2.1	--
Hardness	ASTM D2240	57 – 67	Shore D
Water Absorption, 24hr	ASTM D570	0	%
MECHANICAL			
Tensile Strength	ASTM D4894	16.5 [2,400]	MPa [psi]
Elongation	ASTM D4894	200	%
Tensile Modulus	ASTM D4894	0.29 [0.42]	GPa [psi x 10 ⁵]
Compressive Stress @ 1% Strain	ASTM D695	6.0 [880]	MPa [psi]
Compressive Modulus	ASTM D695	0.58 [0.85]	GPa [psi x 10 ⁵]
Flexural Stress @ 1% Strain	ASTM D790	5.6 [815]	MPa [psi]
Flexural Modulus	ASTM D790	0.53 [0.78]	GPa [psi x 10 ⁵]
Deformation under load, 2000 psi & RT	ASTM D621	3.0	%
THERMAL			
Thermal Conductivity	ASTM D2214	0.65 [4.5]	W/m·°C [BTU·in/hr·ft ² ·°F]
Flammability	ASTM D635	Non-flammable	m/s [in/min]
TRIBOLOGICAL			
Coefficient of Friction	-	0.15 - 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

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. © 2021 Omniseal Solutions™