

# MATERIAL DATASHEET

# RULON® J

**Features:** Light brown, Excellent wear and heat resistance, Non-abrasive

**Benefits:** Recommended for moderate to high-speed service running against soft or hard metals. Performs well against lubricated and non-lubricated surfaces

**Working Temperature Range:**  
 -268° to +288°C [-450° to +550°F]

Properties	Test Methods	Typical Values	Units
PHYSICAL			
Specific Gravity	ASTM D792	1.95	--
Hardness	ASTM D2240	55 – 65	Shore D
Water Absorption, 24hr	ASTM D570	0	%
MECHANICAL			
Tensile Strength	ASTM D4894	17.2 [2,500]	MPa [psi]
Elongation	ASTM D4894	200	%
Compressive Stress @ 1% Strain	ASTM D695	6.2 [895]	MPa [psi]
Compressive Modulus	ASTM D695	0.6 [0.9]	GPa [psi x 10 <sup>5</sup> ]
Flexural Stress @ 1% Strain	ASTM D790	5.2 [750]	MPa [psi]
Flexural Modulus	ASTM D790	0.6 [0.8]	GPa [psi x 10 <sup>5</sup> ]
Deformation under load, 1500 psi & RT	ASTM D621	2.5	%
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 <sup>-5</sup> [in/in/°F x 10 <sup>-5</sup> ]
ELECTRICAL			
Dielectric Constant (Freq. = 1 MHz)	ASTM D150	2.1	-
Dielectric Strength (2.5 mm [0.010"] thick)	ASTM D149	26.9 [682]	MV/m [V/mil]
Dissipation Factor (Freq. = 1 MHz)	ASTM D149	0.0027	-
TRIBOLOGICAL			
Coefficient of Friction	-	0.10 – 0.20	-
OPERATING LIMITS MATING SURFACE			
Maximum Pressure	-	5.2 [750]	MPa [psi]
Maximum Velocity (no pressure)	-	2 [400]	m/s [ft/min]
Maximum PV	-	0.26 [7,500]	MPa x m/s [psi x ft/min]
Rockwell / Brinnell Scale	-	Rb 25 / 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. © 2024 Omniseal Solutions.