

MATERIAL DATA SHEET

Rulon® LR



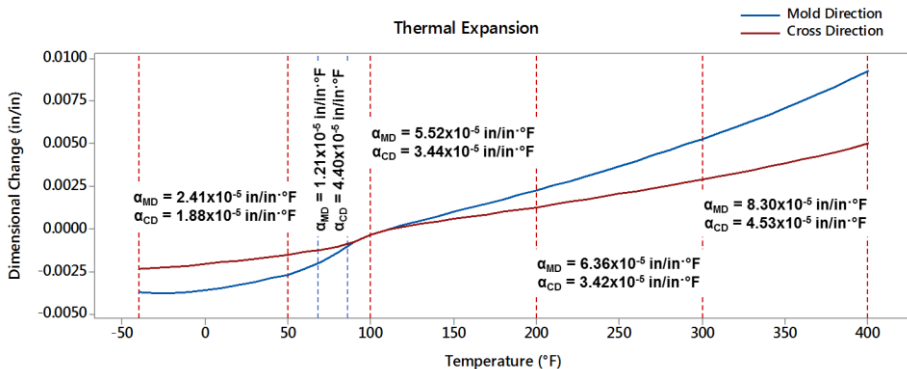
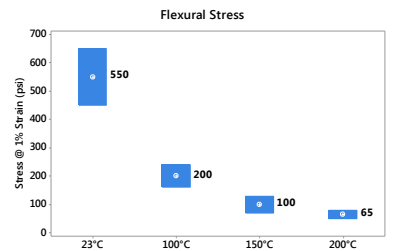
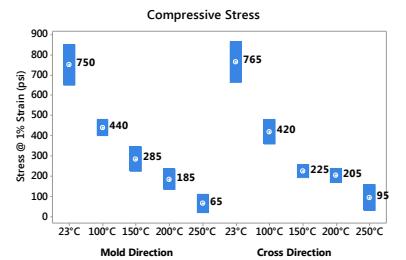
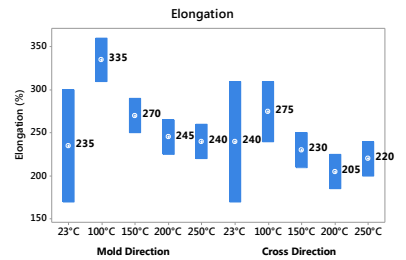
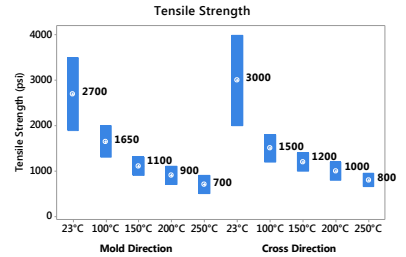
Features:

- 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]

	Property	Test Method	Typical Value	Unit
PHYSICAL	Specific Gravity	ASTM D792	2.25	--
	Hardness	ASTM D2240	60 – 70	Shore D
	Water Absorption, 24h	ASTM D570	0	%
MECHANICAL	Tensile Strength	ASTM D4894	18.6 [2700]	MPa [psi]
	Elongation	ASTM D4894	235	%
	Tensile Modulus	ASTM D4894	0.34 [0.5]	GPa [psi x 10 ⁵]
	Compressive Stress @ 1% Strain	ASTM D695	5.2 [750]	MPa [psi]
	Compressive Modulus	ASTM D695	0.55 [0.8]	GPa [psi x 10 ⁵]
	Flexural Stress @ 1% Strain	ASTM D790	3.8 [550]	MPa [psi]
	Flexural Modulus	ASTM D790	0.41 [0.6]	GPa [psi x 10 ⁵]
THERMAL	Deformation under load, 1500 psi & RT	ASTM D621	3	%
	Thermal Conductivity	ASTM D2214	0.33 [2.3]	W/m ² °C [BTU·in/hr·ft ² ·°F]
ELECTRICAL	Flammability	ASTM D635	Non-flammable	m/s [in/min]
	Volume Resistivity	ASTM D257	1 x 10 ¹⁵	Ohm·cm
	Surface Resistivity	ASTM D257	2 x 10 ¹³	Ohm·sq
	Dielectric Constant (Freq. = 1 MHz)	ASTM D150	2.5	-
	Dielectric Strength (2.5 mm [0.010"] thick)	ASTM D149	35.5 [900]	MV/m [V/mil]
	Dissipation Factor (Freq. = 1 MHz)	ASTM D149	0.001 - 0.004	-
TRIBO	Coefficient of Friction	-	0.15 – 0.25	-
OPERATING LIMITS	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	-	35 / 327 (minimum)	Shore C / -



The table above represents typical values at room temperature for compression molded Rulon®, unless otherwise specified, intended for reference only. They should NOT be used as a basis for design specifications or quality control. Rulon® is a registered trademark. © 2017 Saint-Gobain Performance Plastics, Seals