

Rulon® 1439

The following table is a list of typical physical property values for Rulon® 1439

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	2.5 – 2.6
Hardness Shore D	D2240	—	63
MECHANICAL			
Tensile Strength	D4894	psi [MPa]	1,500 [10.3]
Elongation	D4894	%	100
Deformation under Load @ 1500 psi, 24 Hrs., RT	D621	%	2.0
THERMAL			
Flammability	D635	In/min [m/s]	Non-flammable
RECOMMENDED OPERATING LIMITS			
Maximum Pressure (P)	—	psi [MPa]	1,000 [6.9]
Maximum Velocity (V) with no pressure	—	ft/min [m/s]	400 [2]
Maximum PV (P x V)	—	psi x ft/min [MPa x m/s]	10,000 [0.35]
Minimum Mating Surface Hardness			
Rockwell Scale	—	—	Rb25
Tribological			
Friction – static & dynamic	—	—	0.15 – 0.25

Coefficient of Thermal Expansion		x 10 ⁻⁵ m/m°C		x 10 ⁻⁵ in/in/°F	
ASTM E831		Cross Direction	Molded Direction	Cross Direction	Molded Direction
78 to 400 °F	26 to 204 °C	8.6	10.2	4.8	5.7

Cross Direction: Parallel to length of molded or extruded rod or tube.
Molded Direction: Perpendicular to length of molded or extruded rod or tube.

NOTE: The data listed here falls within the normal range of properties but should not be used to establish specification limits nor used alone as the basis of design. Saint-Gobain Performance Plastics assumes no obligation or liability for any advice furnished by it or for results obtained with respect to the products.

Features / Benefits

- FDA compliant
- Suitable for immersed service with better wear than most other PTFE compounds
- Compatible with most commercial lubricants

Working Temperature Range

- - 400 °F to + 550 °F
[- 240 °C to + 288 °C]

Color

- White

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