

Rulon® 123

The following table is a list of typical physical property values for Rulon® 123

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	2.12
Hardness Shore D	D2240	—	60
Water Absorption	D570	%	0
MECHANICAL			
Tensile Strength	D4894	psi [MPa]	2,500 [17.2]
Elongation	D4894	%	150
Compressive Stress @ 1% strain	D695	psi [MPa]	1,000 [6.9]
Deformation under Load @ 1500 psi, 24 Hrs., RT	D621	%	2.5
THERMAL			
Thermal Conductivity	Cenco-Fitch	BTU in/hr ft ² °F [W/m.K]	4.6 [0.66]
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
Brinnell Scale	—	—	64
Tribological			
Friction – static & dynamic	—	—	0.10 – 0.30

Coefficient of Thermal Expansion		x 10 ⁻⁵ m/m°C		x 10 ⁻⁵ in/in/°F	
ASTM D696		Cross Direction	Molded Direction	Cross Direction	Molded Direction
78 to 200 °F	26 to 93 °C	7.9	12.6	4.4	7.0

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, USDA, NSF compliant
- Excellent chemical resistance
- High resistance to deformation
- Low coefficient of friction
- Good thermal and electrostatic dissipation.

Working Temperature Range

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

Color

- Black

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