Rulon® W2

The following table is a list of typical physical property values for Rulon[®] W2

Properties	ASTM	Units [Metric]	Value [Metric]				
GENERAL							
Specific Gravity	D792	_	2.10				
Hardness Shore D	D2240	_	60				
Water Absorption	D570	%	0				
MECHANICAL							
Tensile Strength	D4894	psi [MPa]	1,800 [12.4]				
Elongation	D4894	%	70				
Compressive Stress @ 1% strain (Mold Direction)	D695	psi [MPa]	850 [5.9]				
Compressive Stress @ 1% strain (Cross Direction)	D695	psi [MPa]	900 [6.2]				
Deformation under load 1500 psi, 24 Hrs. RT	D621	%	3.0				
THERMAL							
Thermal Conductivity	Cenco-Fitch	BTU in/hr ft ² °F [W/m.K]	4.5 [0.65]				
Flammability	D635	In/min [m/s] Non-flammab					
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							
		— 0.15 – 0.30					

Coefficient of Thermal Expansion		x 10 ⁻⁵ m/m⁰C		x 10 ⁻⁵ in/in/°F	
ASTM D696		Cross Direction	Molded Direction	Cross Direction	Molded Direction
78 to 200 °F	26 to 93 °C	8.4	10.8	4.7	6.0
78 to 300 °F	26 to 149 °C	8.8	11.3	4.9	6.3
78 to 400 °F	26 to 204 °C	9.5	12.6	5.3	7.0
78 to 500 °F	26 to 260 °C	11.1	15.4	6.2	8.6

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

- Low friction and excellent wear characteristics
- Compatible with most metal substrates and soft mating surfaces.

Working Temperature Range

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

Color

Black

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