

Rulon® AR

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

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	2.22
Hardness Shore D	D2240	—	60 to 75
Water Absorption	D570	%	0
MECHANICAL			
Tensile Strength	D4894	psi [MPa]	2,000 [13.8]
Elongation	D4894	%	175
Deformation under load 1500 psi, 24 Hrs., RT	D621	%	5.0
Izod Impact Strength (notched)	D256	FT-lb/in [J/m]	6.0 [320]
THERMAL			
Thermal Conductivity	D2214	BTU in/hr ft ² °F [W/m.K]	2.3 [0.33]
Flammability	D635	In/min [m/s]	Non-flammable
RECOMMENDED OPERATING LIMITS			
Maximum Pressure (P)	—	psi [MPa]	1,000 [6.9]
Maximum Velocity (V) 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	—	—	Rc35
Brinnell Scale	—	—	327
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 D696		Cross Direction	Molded Direction	Cross Direction	Molded Direction
-125 to +77 °F	-87 to +25 °C	7.9	10.9	4.4	6.1
-75 to +77 °F	-59 to +25 °C	8.8	12.7	4.9	7.1
-24 to +77 °F	-31 to +25 °C	10.6	15.8	5.9	8.8
0 to +77 °F	-18 to +25 °C	11.8	18.0	6.6	10.0
+32 to +77 °F	0 to +25 °C	14.0	20.8	7.8	11.6
+48 to +77 °F	+9 to +25 °C	11.1	14.7	6.2	8.2
+77 to +150 °F	+ 25 to +66 °C	6.5	9.5	3.6	5.3
+77 to +250 °F	+ 25 to +121 °C	7.4	9.9	4.1	5.5
+77 to +350 °F	+ 25 to +177 °C	8.6	11.1	4.8	6.2
+77 to +450 °F	+ 25 to +232 °C	10.6	12.9	5.9	7.2
+77 to +550 °F	+ 25 to +288 °C	14.0	16.3	7.8	9.1

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

- More Flexibility
- Chemical Inertness
- Long life & reliability in continuous non-lubricated applications

Working Temperature Range

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

Color

- Maroon

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