

Rulon® 142

The following table is a list of typical physical property values for Rulon® 142

Properties	ASTM	Units [Metric]	Value [Metric]
GENERAL			
Specific Gravity	D792	—	3.11
Hardness Shore D	D1706	—	61 – 63
Water Absorption	D570	%	0
MECHANICAL			
Tensile Strength	D4894	psi [MPa]	3,100 [21.4]
Elongation (mold direction)	D4894	%	200
Deformation under Load @ 1500 psi, 24 Hrs., RT	D621	%	3.0
THERMAL			
Coefficient of Thermal Expansion 73 – 200 °F [23 – 93 °C]	D696	in/in/°F x 10 ⁻⁵ [m/m/°C]	4.9 [8.8]
Thermal Conductivity	F433	BTU in/hr ft ² °F [W/m.K]	4.8 [0.69]
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]
Maximum Limiting PV (P x V) (continuous bonded)	—	psi x ft/min [MPa x m/s]	25,000 [0.88]
Minimum Mating Surface Hardness			
Rockwell Scale	—	—	Rc35
Tribological			
Friction – static & dynamic	—	—	0.025 w/oil

Features / Benefits

- Low wear
- High thermal dissipation
- Good dimensional stability
- Excellent mechanical properties

Working Temperature Range

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

Color

- Blue-green

Warranty Information: All information contained herein is believed to be correct but is presented without any guarantee, warranty or representation of any kind, express or implied. Technical data set forth herein is based on tests and measurements conducted in our laboratory under controlled conditions. Suggestions concerning possible applications of our products are made without representation or warranty that such use is free from patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated, or that other such measures may not be required.

Saint-Gobain Performance Plastics Corporation

Bristol, RI 02809 USA
Tel: (401) 253-2000
Fax: (401) 253-8211

Saint-Gobain Performance Plastics N.V.

B-2550 Kontich – Belgium
Phone : +32 3 458 28 28
Fax : +32 3 458 26 69

Saint-Gobain KK Performance Plastics

Tokyo 102-0083, Japan
Phone : +81 33 26 30 285
Fax : +81 33 26 30 286

www.plastics.saint-gobain.com

Rulon® is a registered trademark.
© 2006 Saint-Gobain Performance Plastics Corporation
SGPPL.BR.TDS.035.2006

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.