RULON® FLUOROPOLYMERS MATERIAL COMPARISON

Rulon [®] AR Maroon	Rulon [®] LR Maroon	Rulon [®] J Gold	Rulon [®] 641 White	Rulon [®] 142 Turquoise	Rulon [®] 488 Dull Turquoise
Higher physical properties	High creep and abrasion resistance	Lowest coefficient of friction, excellent insulator	Widely used in food processing industry	Excellent abrasion resistance	High abrasion resistance
General	General	General	General	General	General
Specific Gravity: 2.22	Specific Gravity: 2.25	Specific Gravity: 1.95	Specific Gravity: 2.20	Specific Gravity: 3.11	Specific Gravity: 2.25
Working temperature range:	Working temperature range:	Working temperature range:	Working temperature range:	Working temperature range:	Working temperature range:
-240°C to +288°C	-240°C to +288°C	-268°C to +288°C	-240°C to +288°C	-240°C to +288°C	-240°C to +288°C
Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexibility: Excellent
Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Tensile Strength	Tensile Strength	Tensile Strength	Tensile Strength	Tensile Strength	Tensile Strength
Min. 18.6 MPa (Min. 2700 psi)	Min. 18.6 MPa (Min. 2700 psi)	Min.18.8 MPa (Min. 2725 psi)	Min. 13.8 MPa (Min. 2000 psi)	Min. 21.4 MPa (Min. 3100 psi)	Min. 13.8 MPa (Min. 2000 psi)
Elongation	Elongation	Elongation	Elongation	Elongation	Elongation
Minimum 235%	Minimum 235%	Minimum 235%	Minimum 175%	Minimum 200%	Minimum 175%
Maximum Load	Maximum Load	Maximum Load	Maximum Load	Maximum Load	Maximum Load
6.9 MPa (1000 psi)	6.9 MPa (1000 psi)	5.2 MPa (750 psi)	6.9 MPa (1000 psi)	6.9 MPa (1000 psi)	6.9 MPa (1000 psi)
Coefficient of Friction	Coefficient of Friction	Coefficient of Friction	Coefficient of Friction	Coefficient of Friction	Coefficient of Friction
mär	max max	män	max		Ē
0.15 – 0.25	0.15 – 0.25	0.12 - 0.20	0.10 - 0.30	0.025 with oil	0.10 - 0.30
Available as	Available as	Available as	Available as	Available as	Available as
✓ Basic Shapes	✓ Basic Shapes	✓ Basic Shapes	✓ Basic Shapes	✓ Basic Shapes	✓ Basic Shapes
✓ Finished Parts	✓ Finished Parts	✓ Finished Parts	✓ Finished Parts	✓ Finished Parts	✓ Finished Parts
Manufacturing Process	Manufacturing Process	Manufacturing Process	Manufacturing Process	Manufacturing Process	Manufacturing Process
✓ Compression Molding	✓ Compression Molding	✓ Compression Molding	✓ Compression Molding	✓ Compression Molding	✓ Compression Molding
✓ Skiving	✓ Skiving	✓ Skiving	✓ Skiving	✓ Skiving	✓ Skiving
✓ Extrusion	✓ Extrusion	✓ Extrusion	✓ Extrusion	✓ Extrusion	✓ Extrusion

Omniseal Solutions

SAINT-GOBAIN

RULON[®] FLUOROPOLYMERS MATERIAL COMPARISON



Rulon [®] W2 Black	Rulon [®] 1337 Tan	Rulon [®] X
Very good service in wet environments	Food (FDA & EU1935) compliant material	Best opt aluminu
General	General	General
Specific Gravity: 2.1	Specific Gravity: 2.11	Specific Grav
Working temperature range:	Working temperature range:	Working temp
-240°C to +288°C	-240°C to +288°C	-240°C to +28
Design Flexibility: Excellent	Design Flexibility: Excellent	Design Flexib
Mechanical	Mechanical	Mechanical
Tensile Strength	Tensile Strength	Tensile Stren
Min. 16.5 MPa (Min. 2400 psi)	Min. 17.2 MPa (Min. 2500 psi)	Min. 11.7 MPa
Elongation	Elongation	Elongation
Minimum 200%	Minimum 175%	Minimum 160%
Maximum Load	Maximum Load	Maximum Loa
6.9 MPa (1000 psi)	6.9 MPa (1000 psi)	8.3 MPa (1200
Coefficient of Friction	Coefficient of Friction	Coefficient of
max	a a a a a a a a a a a a a a a a a a a	Ë
0.15 – 0.30	0.10 - 0.20	0.10 – 0.25
Available as	Available as	Available as
✓ Basic Shapes	✓ Basic Shapes	🗸 Basic Sha
✓ Finished Parts	✓ Finished Parts	✓ Finished F
Manufacturing Process	Manufacturing Process	Manufacturi
✓ Compression Molding	✓ Compression Molding	✓ Compress
✓ Skiving	✓ Skiving	✓ Skiving
✓ Extrusion	✓ Extrusion	✓ Extrusion

⁹ 1337 Tan	Rulon [®] XL Tan	Rulon [®] 1439
(FDA & EU1935) pliant material	Best option against aluminum surfaces	Ideal for sub applicat
	General	General
Gravity: 2.11	Specific Gravity: 1.97	Specific Gravity:
temperature range:	Working temperature range:	Working tempera
o +288°C	-240°C to +288°C	-240°C to +288°(
lexibility: Excellent	Design Flexibility: Excellent	Design Flexibility
ical	Mechanical	Mechanical
Strength	Tensile Strength	Tensile Strength
MPa (Min. 2500 psi)	Min. 11.7 MPa (Min. 1700 psi)	Min.10.3 MPa (Min.
on	Elongation	Elongation
175%	Minimum 160%	Minimum 100%
n Load	Maximum Load	Maximum Load
1000 psi)	8.3 MPa (1200 psi)	6.9 MPa (1000 psi)
nt of Friction	Coefficient of Friction	Coefficient of Frid
max	min	ш.
0	0.10 – 0.25	0.15 - 0.25
e as	Available as	Available as
Shapes	✓ Basic Shapes	✓ Basic Shapes
ned Parts	✓ Finished Parts	✓ Finished Parts
turing Process	Manufacturing Process	Manufacturing F
pression Molding	✓ Compression Molding	✓ Compression
ng	✓ Skiving	✓ Skiving
sion	✓ Extrusion	✓ Extrusion

1439 White	Rulon [®] 945 Black		
for submerged oplications	Very good service in wet environments		
	General		
Gravity: 2.55	Specific Gravity: 1.90		
emperature range:	Working temperature range		
+288°C	-240°C to +288°C		
exibility: Excellent	Design Flexibility: Good		
cal	Mechanical		
rength	Tensile Strength		
Pa (Min. 1500 psi)	Min. 20.7 MPa (Min. 3000 psi)		
n	Elongation		
00%	Minimum 20%		
Load	Maximum Load		
000 psi)	6.9 MPa (1000 psi)		
t of Friction	Coefficient of Friction		
max	Ë		
	0.20 – 0.35		
as	Available as		
Shapes	✓ Basic Shapes		
ed Parts	✓ Finished Parts		
uring Process	Manufacturing Process		
ression Molding	✓ Compression Molding		
g	✓ Skiving		
ion	✓ Extrusion		

S	
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si)	
max	

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