

# MATERIAL COMPARISON

# RULON® FLUOROPOLYMERS

Grade	AR	LR	J	641	142/142S/242	488	W2	1337	XL	1439	945
Color	Maroon	Maroon	Gold	White	Turquoise	Dull Turquoise	Black	Tan	Black	White	Black
Comments	Standard Rulon® material with higher physical properties.	Standard Rulon® bearing grade. High creep and abrasion resistance.	Lowest coefficient of friction. Excellent insulator.	Widely used in the food processing industry.	High temperature (dry) oven bearings. Excellent abrasion resistance.	Dry environments where high abrasion resistance is needed	Very good service in wet environments.	Made entirely from FDA & USDA compliant materials	The best Rulon® against aluminum surfaces	Ideal for submerged applications	Very good service in wet environments.
Max Load	6.9	6.9	5.2	6.9	6.9	6.9	6.9	6.9	8.3	6.9	6.9
"P" MPa (psi)	(1,000)	(1,000)	(750)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,200)	(1,000)	(1,000)
Max Speed	2	2	2	2	2	2	2	2	2	2	2
"V" m/s (fpm)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)	(400)
Max "PV" MPa * m/s (psi-fpm)	0.35 (10,000)	0.35 (10,000)	0.26 (7,500)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)	0.35 (10,000)
Rb 25 & higher			X	X		X	X	X	X	X	X
Rc 35 & higher	X	X			X						
Aluminum			X						X		
FDA compliant				X				X		X	
Steam	X	X		X	X	X	X	X	X	X	X
Wet	X	X		X	X	X	X	X	X	X	X
Dry	X	X	X	X	X	X	X	X	X	X	X
Vacuum	X	X	X	X	X	X			X	X	
Coefficient of friction	4	4	1	1	2	3	2	2	1	3	2
Creep resistance	3	4	3	4	5	4	4	3	4	4	4
Insulative properties	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No

- The list above is only a partial list of the available Rulon® grades (formulations).
- PV data may be exceeded based on specific application requirements. Ask to speak to an Omniseal Solutions™ Engineer.
- Ratings above are relative within the Rulon® family ONLY.
- For Rulon® materials, the coefficient of friction decreases with increasing load, and wear decreases with increasing surface hardness.
- For PTFE based materials, wear in steam and wet environments is higher than in dry environments. Omniseal Solutions™ offers enhanced Rulon® grades which minimize this effect.
- Most Rulon® products have excellent chemical compatibility. Data available upon request.