



# High Performance Polymer Solutions

# Bearings Guide



# Advanced EMC Technologies

## Bearing Material

Bearing Material	Max. P	Max V	Max PV	Service	Characteristics / Attributes
	Static	No Load	PxV	Temp.	
	PSI	SFM Dry	Dry	Cont. F	
Fluorolon 4031 Polyimide (Graphite 15%)	6,000	1,000	300,000	570	Highest PV / Very High Temp / Lowest Friction
Fluorolon 4032 Polyimide (Graphite 40%)	6,600	500	250,000	570	High PV / High Temp / Chemical Resistant
Fluorolon 4033 Polyimide (Graphite-PTFE)	5,000	1,000	250,000	570	High PV / High Temp / Low Friction / Chemical Resistant
Fluorolon 3015 PEEK BG	6,000	600	100,000	480	High PV / High Temp / Chem Resist / Thermally Stable
Torlon 4435	1,000	850	100,000	500	High Temp/ Low Friction/High PV/Superior Bearing Grade
Fluorocomp 6000 Polyimide Composite	50,000	200	80,000	550	High Temp/High Load/Low Friction/Polyimide Carbon/ Chem. Res.
Fluorolon 3010 PEEK	6,000	600	50,000	480	High PV / High Temp / Low Friction / Chemical Resistant
Torlon 4301	1,000	900	50,000	500	High Temp / High Strength / Low Friction / Graphite Filled
Fluorocomp 6010 Composite	40,000	50	50,000	250	Lowest Friction / High Load / PTFE Filled Composite Bearing
Fluorolon 3000 PEEK	4,500	750	40,000	480	High PV / High Temp / Low Friction / Chemical Resistant
Fluorocomp 6020 Composite	34,400	40	30,000	266	High Load / Impact Resistant / Graphite Filled Composite Brg
Fluorolon 5065 PPS BG	2,000	400	25,000	400	High Temp/Low Impact Only/Low Friction/PPS
Hydex 4101L	1,000	200	15,000	245	PTFE Filled PBT / FDA / USDA / Low Friction
HYDLAR FGA	1,000	100	12,400	180	PTFE Filled Acetal / Low Friction / FDA / USDA
Fluorolon 5025 PPS BG	2,000	400	12,000	400	High Temp/Low Impact Only/Low Friction/ Soft Surface
Fluorolon 5010 PPS	2,000	350	11,000	400	High Temp/Medium Impact/Low Friction
RULON® W2 (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Water Applications / High V / Chemical Resistant
RULON® LR (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Good Strength / High V / Chemical Resistant
RULON® K / FLUOROLOY K (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Stability / Seals / High V / Chemical Resistant
RULON® J (Saint-Gobain)	750	400	10,000	500	Filled PTFE / Low Friction / Non Abrasive / Chemical Resistant
RULON® DC7035 (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Conductive / High V / Chemical Resistant
RULON® 641 (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / FDA / USDA / High V / Chemical Resistant
RULON® 488 (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Economical / High V / Chemical Resistant
RULON® 142 (Saint-Gobain)	1,000	400	10,000	500	Filled PTFE / Bondable / Machine Tool Ways / High Load
Fluorolon 5605 Nylon	400	100	10,000	200	High Impact / Oil Lubricant Filled Nylon Type 6 / Low Friction
Fluorolon 6510 Acetal	1,000	100	10,000	180	PTFE Filled Acetal / Low Friction / Brown / Good Machinability
RULON 988 / FLUOROLOY A	1,000	400	7,500	500	Filled PTFE / Stability / Strength / High V / Low Friction
Fluorolon 3100 PET	2,300	100	6,000	210	PTFE Filled PET/Low Friction/Chemical Resistant/Machinability
Fluorolon 1060 PTFE Polyimide	1,000	350	6,000	500	Filled PTFE/Low Friction/High Temp/Chemical Resistant
Fluorolon 5601 Nylon	400	100	5,500	200	High Impact/Lubricated Nylon/Type 6/ Low Friction
Fluorolon 5602 Nylon	350	100	5,500	200	Oil & MoS2 Filled Nylon Type 6 / Low Friction / Good Wear
Fluorolon 5602HS Nylon	300	100	5,500	260	Oil & MoS2 Filled Nylon Type 6 / High Temp / Good Wear
Micarta	27,500	15	5,000	250	Thermo-set / Rigid / High Strength / Electrical Insulator
FLUOROSINT 500	750	400	5,000	500	Syn. Mica Filled PTFE / Most Thermally Stable in PTFE Family
Fluorolon 1025 PTFE Glass	1,000	350	5,000	550	Filled PTFE / High V / High Temp / Chemical Resistant
Fluorolon 1034 PTFE Carbon/Graphite	1,000	400	4,500	500	Filled PTFE / Low Friction / Conductive / Chemical Resistant
Fluorolon 6520	1,000	50	3,500	180	Acetal / Economical / Good Wear / FDA / USDA / Machinable
VEKTON 6PAM, 6PA	300	60	3,000	200	MoS2 Filled Nylon Type 6 / Economical / High Strength
Fluorolon 5600	300	60	2,700	210	Economical / Good Wear Characteristics/ High Impact Strength
Fluorolon 5510 UHMW	800	75	1,500	180	Low Friction / High Abrasion Resistance / FDA / Chemical Res.
Fluorolon 5515 UHMW	1,000	50	1,500	180	Low Friction / Highest Abrasion Resistance / Economical
Fluorolon 1055 PTFE Graphite	400	100	1,500	500	Filled PTFE / Low Friction / Economical / Chemical Resistance
Fluorolon 5000 UHMW	800	50	1,000	180	Economical / High Abrasion Resistance / Low Friction / FDA
Fluorolon 1000 PTFE	50	400	1,000	550	High Chemical Resistance / High Temp / Low Heat Transfer

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Consistent, Accurate, on Time, and on Budget . . .



Advanced EMC  
Technologies

Innovation in new materials development,  
**seal and bearing geometries**, and **manufacturing processes** are at work providing our customers improved solutions to engineering problems.



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