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# Ensinger Guide to Plane Bearings

Bearing Material	Max. P Static psi	Max V No Load SFM dry	Max PV P x V Dry	Service Temp. Cont. F	Characteristics / Attributes
POLY-TEXX <sup>®</sup> XP-154 Filled Polyimide	6,000	1,000	300,000	650	Highest PV / Very High Temp / Graphite Filled / Premium Grade
POLY-TEXX <sup>®</sup> XP-156 Filled Polyimide	6,000	500	250,000	550	High PV / High Temp / Graphite & PTFE Filled / Premium Grade
POLY-TEXX <sup>®</sup> XP-134 Filled Polyimide	5,000	1,000	250,000	650	High PV / High Temp / Graphite Filled / General Purpose Grade
POLY-TEXX <sup>®</sup> XP-139 Filled Polyimide	5,000	500	200,000	550	High PV / High Temp / Graphite & PTFE Filled / GP Grade
POLY-TEXX <sup>®</sup> TL-60	5,000	750	100,000	450	High PV / High Temp / PBI-PEEK Blend / Chemical Resistant
POLY-TEXX <sup>®</sup> XP-99	4,500	750	100,000	450	High PV / High Temp / Graphite, PTFE & Carbon Fiber Filled PEEK
TORLON 4301	1,000	900	50,000	500	High Temp / High Strength / Low Friction / Graphite Filled
CELAZOLE <sup>®</sup> / PBI	1,000	150	50,000	650	Highest Temp / Chemical Resistant / Polybenzimidazole
CARBON FIBER FILLED PEEK	6,000	600	50,000	480	High PV / High Temp / Thermally Stable / Conductive
DU <sup>®</sup> POLYMER LINED METAL BRG	20,000	500	50,000	536	High PV / Metal Jacketed / PTFE-Lead Liner / Thin Profile
POLY-TEXX <sup>®</sup> HPVO	34,000	75	45,000	266	Lowest Friction / High Load / PTFE-Oil Filled Composite Bearing
POLY-TEXX <sup>®</sup> HPVT	34,000	50	40,000	266	Low Friction / High Load / PTFE Filled Composite Bearing
POLY-TEXX <sup>®</sup> HPVG	34,000	40	35,000	266	High Load / Impact Resistant / Graphite Filled Composite Brg
PACIFIC - LINEAR MOTION BEARINGS	5,000	400	20,000	500	Standard Sizes U.S. & Metric / Self Lubricating / High Load
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
RULON <sup>®</sup> W2	1,000	400	10,000	500	Filled PTFE / Water Applications / High V / Chemical Resistant
GAR-FIL <sup>®</sup> COMPOSITE BEARINGS	10,000	500	10,000	320	Filled PTFE Lined Glass Epoxy Shell / High Load / High Speed
GAR-MAX <sup>®</sup> COMPOSITE BEARINGS	10,000	25	10,000	320	PTFE Fiber Lined Glass Epoxy Shell / High Load / High Impact
RULON <sup>®</sup> LR	1,000	400	10,000	500	Filled PTFE / Good Strength / High V / Chemical Resistant
RULON <sup>®</sup> K / FLUOROLOY K	1,000	400	10,000	500	Filled PTFE / Stability / Seals / High V / Chemical Resistant
RULON <sup>®</sup> J	750	400	10,000	500	Filled PTFE / Low Friction / Non Abrasive / Chemical Resistant
RULON <sup>®</sup> DC7035	1,000	400	10,000	500	Filled PTFE / Conductive / High Speed / Chemical Resistant
RULON <sup>®</sup> 641	1,000	400	10,000	500	Filled PTFE / FDA / USDA / High Speed / Chemical Resistant
RULON <sup>®</sup> 488	1,000	400	10,000	500	Filled PTFE / Economical / High Speed / Chemical Resistant
RULON <sup>®</sup> 142	1,000	400	10,000	500	Filled PTFE / Bondable / Machine Tool Ways / High Load
VEKTON <sup>®</sup> / TECAST 6PALM	400	100	10,000	200	High Impact / Oil Lubricant Filled Nylon Type 6 / Low Friction
FLUOROGOLD	1,000	400	10,000	500	Filled PTFE / Lowest Friction / High Speed / Chemical Resistant
DELTRIN AF	1,000	100	10,000	180	PTFE Filled Acetal / Low Friction / Brown / Good Machinability
ENSIFIDE BG / PPS	1,500	400	10,000	425	High Strength / Rigidity / Excellent Chemical Resistance
ENSITAL HPV13	1,000	100	8,750	180	Filled Acetal / Low Moisture Absorption / Wear Resistant
POLY-TEXX <sup>®</sup> Z	1,500	100	8,000	230	Kevlar - Aramid Fiber Filled Nylon / Extreme Wear Resistance
RULON <sup>®</sup> 988 / FLUOROLOY A	1,000	400	7,500	500	Filled PTFE / Stability / Strength / High Speed / Low Friction
FLUOROSINT <sup>®</sup> 207	750	400	7,500	500	Filled PTFE / Low Friction / High Temp. / FDA / Thermal Stability
HYDEX 4101	1,000	100	6,000	245	PBT / Chemical Resistant / Economical / Good Wear
VEKTON <sup>®</sup> / TECAST 6PAL, 6PAG,	350	100	5,500	200	Oil & MoS2 Filled Nylon Type 6 / Low Friction / Good Wear
VEKTON <sup>®</sup> / TECAST 6XAU	300	100	5,500	260	Oil & MoS2 Filled Nylon Type 6 / High Temp / Good Wear
MICARTA <sup>®</sup> C	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
ENSITOP / TECADUR	1,000	100	5,000	210	PET / Economical / Good Wear / FDA / USDA / Machinable
25% GLASS FILLED PTFE	1,000	350	5,000	550	Filled PTFE / High V / High Temp / Chemical Resistant
25% CARBON FILLED PTFE	1,000	400	4,500	500	Filled PTFE / Low Friction / Conductive / Chemical Resistant
DELTRIN <sup>®</sup> / HOMOPOLYMER	1,000	50	3,500	180	Acetal / Economical / Good Wear / FDA / USDA / Machinable
NYLON ST801	300	40	3,000	200	Super Tough Nylon / High Strength / High Impact Strength
VEKTON <sup>®</sup> / TECAST 6PAM, 6PA	300	60	3,000	200	MoS2 Filled Nylon Type 6 / Economical / High Strength
GLASS FILLED NYLON	350	40	3,000	225	Economical / Good Wear / High Impact Strength / High Strength
DELTRIN CL500	1,000	50	3,000	122	Excellent Machinability / Lubricated Acetal / Low Friction
NYLON / TECAMID 6/6	300	60	2,700	210	Economical / Good Wear Characteristics/ High Impact Strength
POLY-TEXX <sup>®</sup> AR	1250	75	2,500	200	Highest Abrasion Resistance / Low Friction / Excellent Wear
OIL FILLED UHMW	800	75	1,500	180	Low Friction / High Abrasion Resistance / FDA / Chemical Res.
POLY-TEXX <sup>®</sup> 350GF	1,000	50	1,500	180	Low Friction / Highest Abrasion Resistance / Economical
15% GRAPHITE FILLED PTFE	400	100	1,500	500	Filled PTFE / Low Friction / Economical / Chemical Resistance
UHMW	800	50	1,000	180	Economical / High Abrasion Resistance / Low Friction / FDA
PTFE	50	400	1,000	550	High Chemical Resistance / High Temp / Low Heat Transfer