

FLUOROLON PEEK 3010

Fluorolon 3010 is a 30% Carbon Fiber reinforced PEEK (polyetheretherketone) polymer. It is a performance polymer offering high modulus, high temperature service used in many bearing and metal replacement applications. It is an excellent material for a wide variety of applications where chemical, thermal, wear and combustion properties are critical.

APPLICATIONS:

Property	Specified	Units	Method
Tensile Strength	31,000	psi	ASTM D638
Elongation	1.7	%	ASTM D638
Tensile Modulus	3,050,000	psi	ASTM D638
Compressive Strength	33,500	psi	ASTM D695
Flexural Strength	51,400	psi	ASMT D790
Flexural Modulus	2,292,000	psi	ASTM D790
Notched Impact	1.44	ft/lb/in	ASTM D256
Hardness	90	Shore-D	ASTM D785
Coefficient of Friction	.24	-	dry v steel
Service Temperature	480	F	Max-No Load
Thermal Expansion	25 x 10 ^{^-6}	in/in/f	ASTM D696
Wear Factor	.000148	in/min/68F	600Ft/Min
Specific Gravity	1.41	g/cm ³	ASTM D792
Water Absorption	.10	(%) 24-hrs-%	ASTM D570
Dielectric	190	kv/cm	ASTM D149
Flammability	self-ext	-	ASTM D639
Resistance to oils, fuels, solvents	excellent	-	-

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