

FLUOROLON PEEK 3005

Fluorolon 3005, 30% Glass Fiber reinforced PEEK, a high performance, high temperature engineering plastic semi-crystalline polymer . It is an excellent material for a wide variety of applications where chemical, thermal are critical. PEEK can be used continuously in hot water or steam without permanent loss of physical properties.

Property	Specified	Units	Method
Tensile Strength	18,900	psi	ASTM D638
Elongation	1.0	%	ASTM D638
Tensile Modulus	1,600,000	psi	ASTM D638
Compressive Strength	22,000	psi	ASTM D695
Flexural Strength	28,200	psi	ASMT D790
Flexural Modulus	1,400,00	psi	ASTM D790
Notched Impact	1.0	ft/lb/in	ASTM D256
Hardness	86	Shore D	ASTM D785
Coefficient of Friction	.29	-	dry v steel
Heat Deflection Temperature	599	F	Max-no load
Thermal Expansion	1.4 10 ⁵ th	in/in/f	ASTM D696
Wear Factor	-	k	K (in ³ /min/ft/lb/hr)
Specific Gravity	1.51	g/cm ³	ASTM D792
Water Absorption	.12	(%)24-hrs-	ASTM D570
Dielectric	175	kv/cm	ASTM D149
Flammability	self-ext	-	ASTM D639
Resistance to oils, fuels, solvents	excellent	-	-

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