

FLUOROLON PEEK 3012

Fluorolon 3012 is a proprietary bearing grade PEEK resin, reinforced with carbon fibers, internally lubricated with synthetic lubricates to enhance performance. Tribological tests have shown friction and wear rates much lower than other polymer bearings composites available in the marketplace. An excellent material for a wide variety of demanding applications where chemical, thermal, wear and low friction high load service is required.

Property	Specified	Units	Method
Tensile Strength	11,000	psi	ASTM D638
Elongation	2	%	ASTM D638
Tensile Modulus	850,000	psi	ASTM D638
Compressive Strength	26,500	psi	ASTM D695
Flexural Strength	27,500	psi	ASMT D790
Flexural Modulus	1,100,000	psi	ASTM D790
Notched Impact	.7	ft/lb/in	ASTM D256
Hardness	85	Shore-D	ASTM D785
Coefficient of Friction	.21	Dynamic	PTM 55007
Service Temperature	500	(F)	-
Thermal Expansion	1.7 x 10 ⁻⁵	in/in/f	ASTM E 838
Wear Factor "K" x 10 ⁻¹⁰	100	In.3-min/ft.lbs-hr h/lblb.hr/hr	ATM-66010
Specific Gravity	1.44		ASTM D792
Water Absorption	.05	24 hours-%	ASTM D570
Dielectric	-	kv/cm	ASTM D149
Flammability	V-0	-	UL-94
Resistance to oils, fuels, solvents	excellent	-	-

This information corresponds to our current information on the subject. It is offered solely to provide suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. Since we cannot anticipate all variations in actual end-use conditions, Advanced EMC Technologies makes no warranties and assumes no liability in connection with any use of this information.

ADVANCED EMC TECHNOLOGIES

5903 S. 107th East Avenue,
Suite 108
Tulsa, Oklahoma 74146

Phone (800) 644-9770
sales@advanced-emc.com