



P5030 is an industry standard, lubricated, reinforced bearing grade PEEK material. This 10/10/10 Carbon-fiber, Graphite, PTFE composite is popular for a number of medium PV dynamic applications. It is equivalent to Victrex 150/450FC30.

Physical Properties

Specific Gravity
Water Absorption (24 hrs. @73.4° F)
Color

ASTM Method	Typical Values
D792	1.45 gr/cm ³
D570	0.15%
N/A	Tan

Mechanical Properties

Tensile Strength
Tensile Elongation
Flexural Strength
Flexural Modulus
Compressive Strength
Compressive Modulus
Impact Strength (Izod, notched)
Hardness

ASTM Method	Typical Values
D1708	8000 psi
D1708	2.5%
D790	20000 psi
D790	600000 psi
D695	13000 psi
D695	400000 psi
D256	0.7 ft-lb/in
Shore D	86

Tribological Properties

Coefficient of Friction - Static

ASTM Method	Typical Values
D3702	0.33

Thermal Properties

Coefficient of Linear Thermal Expansion (78-400° F)
Heat Deflection Temperature (@264 psi)
Glass Transition Temperature (T_g)
Continuous Service Temperature (Max @ no load)
Melting Point [^]

ASTM Method	Typical Values
D696	3310 -6/° F
D648	530° F
D3418	289° F
	480° F
	644 ° F

Electrical Properties

Volume Resistivity
Dielectric Strength
Dielectric Constant

ASTM Method	Typical Values
D257	10*8 ohm-cm
D149	KV/mm
D150	Hz, 200° C