



Typical Properties of

**PTFE Filled PEEK****Polyetheretherketone with 20% PTFE Filler**

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.4
Tensile Strength	D638	psi	11,310
Tensile Modulus	D638	psi	421,000
Elongation	D638	%	25
Flexural Strength	D790	psi	18,125
Flexural Modulus	D790	psi	464,000
Compressive Strength	D695	psi	15,225
Compressive Modulus	D695	psi	435,000
Hardness, Rockwell	D785	--	N / A
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	2.19
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.18
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	$2.78 \times 10^{-5}$
Continuous Use Temperature	--	°F	480
Heat Deflection Temperature	D648	°F	302
Glass Transition Temperature	D3418	°F	290
Melting Point	D3418	°F	644
Thermal Conductivity	E1530-11	BTU in/hr ft <sup>2</sup> °F	N / A
Dielectric Strength	D149	Volts/mil	N / A
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{16}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.05
Water Absorption, Saturation	D570	% by weight	0.3
Limiting PV (4:1 Safety Factor)	--	--	N / A
K-Factor	--	--	N / A
FDA Compliance	--	--	Yes

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.  
All values at 73 F unless otherwise stated.