



Typical Properties of

PEK

Unfilled Polyetherketone

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.32
Tensile Strength	D638	psi	16,000
Tensile Modulus	D638	psi	570,000
Elongation	D638	%	20
Flexural Strength	D790	psi	27,000
Flexural Modulus	D790	psi	609,000
Compressive Strength	D695	psi	20,000
Compressive Modulus	D695	psi	507,500
Hardness, Rockwell	D785	--	N / A
Hardness Durometer	--	--	D87
Izod Impact (notched)	D256	ft. lb of notch	2.9
Coeff. of Friction (Dynamic)	--	dry v.s steel	N / A
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	2.5×10^{-5}
Continuous Use Temperature	--	°F	500
Heat Deflection Temperature	D648	°F	330
Glass Transition Temperature	D3418	°F	315
Melting Point	D3418	°F	705
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	N / A
Dielectric Strength	D149	Volts/mil	430
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{16}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.07
Water Absorption, Saturation	D570	% by weight	0.6
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.