



Typical Properties of

**Ketron® CA30 LSG PEEK**

Carbon Filled Life Science Grade PEEK

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.41
Tensile Strength	D638	psi	19,000
Tensile Modulus	D638	psi	1,100,000
Elongation	D638	%	5
Flexural Strength	D790	psi	25,750
Flexural Modulus	D790	psi	1,250,000
Compressive Strength	D695	psi	29,000
Compressive Modulus	D695	psi	N/A
Hardness, Rockwell	D785	--	M102
Hardness Durometer	--	--	N/A
Izod Impact (notched)	D256	ft. lb of notch	1.03
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.2
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	1.0 x 10 <sup>-5</sup>
Continuous Use Temperature	--	°F	480
Heat Deflection Temperature	D648	°F	518
Glass Transition Temperature	D3418	°F	290
Melting Point	D3418	°F	644
Thermal Conductivity	E1530-11	BTU in/hr ft <sup>2</sup> °F	6.4
Dielectric Strength	D149	Volts/mil	32
Surface Resistivity	EOS/ESD 511.11	ohm/square	10 <sup>4</sup>
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.06
Water Absorption, Saturation	D570	% by weight	0.3
Limiting PV (4:1 Safety Factor)	--	--	25,000
K-Factor	--	--	150
FDA Compliance	--	--	USP

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.