



Typical Properties of

Semitron® MP370

Modified PEEK

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.62
Tensile Strength	D638	psi	11,500
Tensile Modulus	D638	psi	640,000
Elongation	D638	%	3
Flexural Strength	D790	psi	16,750
Flexural Modulus	D790	psi	625,000
Compressive Strength	D695	psi	18,200
Compressive Modulus	D695	psi	600,000
Hardness, Rockwell	D785	--	M98
Hardness Durometer	--	--	N/A
Izod Impact (notched)	D256	ft. lb of notch	0.4
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	480
Heat Deflection Temperature	D648	°F	320
Glass Transition Temperature	D3418	°F	290
Melting Point	D3418	°F	N/A
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	2.36
Dielectric Strength	D149	Volts/mil	376
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{13}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.11
Water Absorption, Saturation	D570	% by weight	0.5
Limiting PV (4:1 Safety Factor)	--	--	2,200
K-Factor	--	--	500
FDA Compliance	--	--	NO

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.