

## TYPICAL PROPERTIES of EXTRUDED PEEK

(compression molded and injection molded versions also available)

ASTM or UL test	Property	Unfilled
<i>PHYSICAL</i>		
D792	Density (lb/in <sup>3</sup> ) (g/cm <sup>3</sup> )	0.047 1.31
D570	Water Absorption, 24 hrs (%)	0.1
<i>MECHANICAL</i>		
D638	Tensile Strength (psi)	16,000
D638	Tensile Modulus (psi)	500,000
D638	Tensile Elongation at Break (%)	20
D790	Flexural Strength (psi)	25,000
D790	Flexural Modulus (psi)	600,000
D695	Compressive Strength (psi)	20,000
D695	Compressive Modulus (psi)	500,000
D785	Hardness, Rockwell	M100
D256	IZOD Impact Notched (ft-lb/in)	1
<i>THERMAL</i>		
D696	Coefficient of Linear Thermal Expansion (x 10 <sup>-5</sup> in./in./° F)	2.6
D648	Heat Deflection Temp (° F / ° C) at 264 psi	320 / 160
D3418	Melting Temp (° F / ° C)	644 / 340
-	Max Operating Temp (° F / ° C)	480 / 249
C177	Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-° F) (x 10 <sup>-4</sup> cal/cm-sec-° C)	1.75 6.03
UL94	Flammability Rating	V-0
<i>ELECTRICAL</i>		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	480
D150	Dielectric Constant at 1 MHz	3.3
D150	Dissipation Factor at 1 MHz	0.003
D257	Volume Resistivity (ohm-cm) at 50% RH	4.9 x 10 <sup>16</sup>

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control.

Contact us for manufacturers' complete material property datasheets.

All values at 73° F (23° C) unless otherwise noted.