



POLYMER INDUSTRIES

MECHETEC PEEK C30 Carbon Fiber Filled PEEK Typical Properties

Property	Test Method	Unit	Nominal Value*
Mechanical			
Tensile Strength	ASTM D638	psi	31,900
Tensile Elongation @ Break	ASTM D638	%	2.0
Tensile Modulus	ASTM D638	psi	1,885,000
Flexural Strength	ASTM D790	psi	51,900
Flexural Modulus	ASTM D790	psi	2,610,000
Izod Impact (notched)	ASTM D256	ft.-lb./in.	1.1
Rockwell Hardness	ASTM D785	M Scale	107
Dynamic Coefficient of Friction	PV@25ksi-FPM	--	0.16
Thermal			
C.U.T. without impact	UL746B	°F	460
Glass Transition (T _g)	ASTM D3418	°F	290
HDT @ 264 psi	ASTM D648	°F	600
CTE (linear)	ASTM D 696	in/in- °F	7.8 X 10 ⁻⁶
Flammability	UL 94	@3.0mm	V-0
Miscellaneous			
Specific Gravity	ASTM D792	---	1.41
Water Absorption (24 hr.)	ASTM D570	%	<.2
Color	--	--	Black