



Pyramid CC100 PEEK

PEEK with 60% Chopped Carbon Fabric/Tape

General	ASTM #	US Value	SI Unit
Form	--	Compression Molded Shape	
Composition (base resin)	--	PEEK	
Reinforcement	--	Chopped Carbon Fiber/Tape	
Filler Content, Wt%	--	60% nominal	
Color	--	Gray/black	
Density, lb/in ³	D792	0.054	1.5 g/cm ³
Moisture Absorption @24hr., %	D570	0.05	
Mechanical			
Tensile Strength (Break), Kpsi	D638	45	310 MPa
Tensile Modulus, Mpsi	D638	5.2	36 GPa
Elongation (Break),%	D638	1 %	
Flexural Strength (Yield) Kpsi	D790	48	330 MPa
Flexural Modulus Mpsi	D790	4.9	34 GPa
Compressive strength , Kpsi	D695	40	275 MPa
Compressive modulus , Mpsi	D695	3.6	25 GPa
Hardness, Rockwell M	D2240	M110	Shore D96
Izod, Notched, ft-lb/in @ 1/8"	D256	2.1	1.1 J/cm
Thermal			
Melting Point, °F	DSC	644	340°C
Tg (Glass Transition), °F	DSC	289	143°C
Flammability Rating (UL 94)	UL94	V-0	V-0
HDT @ 264 psi	D648	>580	>300°C
Electrical			
Volume Resistivity, Ohm-cm	D257	<100	<100
Surface Resistivity, Ohm-sq	D257	<100	<100