

Product Texts

PEEK with 60% Chopped Carbon Fabric/Tape.

Pyramid CC100 is chopped carbon fiber (1/4" or so to 1/2") reinforced, feed material can be in fiber bundles, chopped tapes or other irregular chopped fiber forms. Typically used as reinforced structural components such as medical Instruments.

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	36000	MPa	ASTM D 638
Tensile Strength at Break	310	MPa	ASTM D 638
Elongation at Break	1	%	ASTM D 638
Compressive Modulus	25000	MPa	ASTM D 695
Compressive Strength	275	MPa	ASTM D 695
Flexural Modulus	34000	MPa	ASTM D 790
Rockwell Hardness	M 110	-	ASTM D 785
Shore D Hardness	96	-	ASTM D 2240
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
DTUL @ 264 psi	300	°C	ASTM D 648
Melting Temperature	340	°C	ASTM D 3418
Glass Transition Temperature	143	°C	ASTM E 1356

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100	Ohm	ASTM D 257
Volume Resistivity	100	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1500	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Black

Regional Availability

North America, Europe, Asia Pacific