

Product Texts

PEEK with 60% Continuous Carbon Fiber.

Pyramid CC200 is continuous carbon fiber reinforced, feed material is woven fabric cloth, typically fiber bundles ranging from 3K to 12K and resin composition from 30 to 50 %. Typically used as planar reinforced structural components such as external fixator in medical applications.

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	52000	MPa	ASTM D 638
Tensile Strength at Break	565	MPa	ASTM D 638
Elongation at Break	0.9	%	ASTM D 638
Compressive Strength	59	MPa	ASTM D 695
Flexural Modulus	45000	MPa	ASTM D 790
Rockwell Hardness	M 112	-	ASTM D 785
Shore D Hardness	98	-	ASTM D 2240
Izod Impact notched, 1/8 in	150	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	50	Ohm	ASTM D 257
Volume Resistivity	50	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1500	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Black

Regional Availability

North America, Europe, Asia Pacific