



**CERAMATERIALS**

**Carbon Fiber Composite- Chopped Fiber**



- This CFC material uses short, random length fiber, laid in a non uniform structure
- Chopped fiber CFC provides stronger interlaminar strength & higher density
- Ideal for machining complex shapes & threads with Fabricated grids have higher strength & improved design capabilities
- while retaining its overall strength

Material Grade	Unit	PC 70	PC40	PC30	WL60
Bulk Density	g/cm <sup>3</sup>	1.7	1.7	1.7	1.6
Thickness	MPa	200	150	200	150
Comprehensive strength	MPa	210	190	200	120
Interlaminar shear strength	MPa	17	15	15	11
RTC(13000C)	10 <sup>-6</sup> /c	1.3	0.3	1.1	1.1
Coefficient of Thermal Expansion	⊥ 10 <sup>-6</sup> /C	10	10.6	10.5	9
Thermal Conductivity	⊥ W/m*K	35 12	75 20	130 29	33 10
Specific Heat	20C J/Kg*K	720	740	720	
Electrical Resistivity	μΩcm	2000	1300	1000	2800
Sharpy Impact Strength	KJ/m2	20			
Shore Hardness		75			
Temperature Rating	°C	2000	2500	2500	2000

