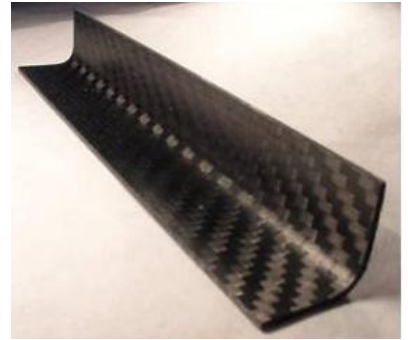


Carbon/Carbon Composites

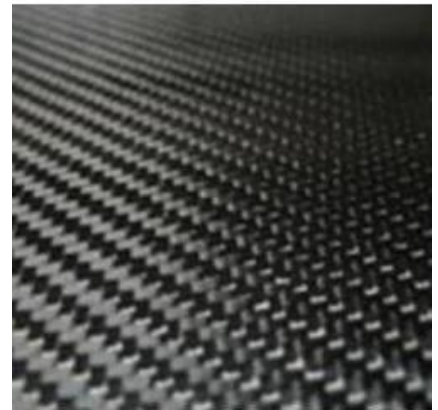
Characteristics of Carbon Composites

- Lightweight
- High modulus
- High strength
- Fire resistant
- Dimensionally stable
- Fatigue and fracture resistant
- Configurations of Carbon Fabric
- Low thermal mass



Typical Properties

Reinforcement pattern		12K Twill
Heat Treatment Temperature	(°C)	2000
Fiber Volume Fraction	(%)	60
Bulk Density	(g/cc)	1.5
Porosity	(% vol)	8
Young's Modulus	(GPa)	55
Interlaminar Shear Strength	(MPa)	8
Tensile Strength (// to)	(MPa)	120
Thermal Expansion (CTE)	(10 ⁻⁶ /K)	
// to the lamination		0.7
↓ to the lamination		7.0
Thermal Conductivity	(W/mK)	
// to the lamination		30
↓ to the lamination		7
Electric resistivity (RT)	(μΩ/□)	30



Shapes Made to Print

- Custom fabrications quoted