



GRADE: CCP-152-6
Typical Physical Properties

| Material Type | | Carbon/Carbon Composite |
|-------------------------------|---------|--|
| Fabric | | 6K Twill |
| Density | | 1.55 g/cm ³ |
| Flexural Strength | ⊥ | 24,914 psi 171.8 MPa |
| Flexural Modulus | ⊥ | 9,433 ksi 65 GPa |
| Tensile Strength | // | 16,054 psi 110.7 MPa |
| Tensile Modulus | // | 10,471 ksi 77.1 GPa |
| Interlaminar Shear Strength | | 2,030 psi 14 MPa |
| Compressive Strength | // | 20,300 psi 140 MPa |
| Thermal Conductivity | // ⊥ | 32 W/mK 7 W/mK |
| CTE (20 – 1,000°C) | // ⊥ | 0.5 x 10 ⁻⁶ /K 7.0 x 10 ⁻⁶ /K |
| Electrical Resistivity (25°C) | // | 31 μΩm |

Notes:

1) // Parallel to Fiber Axis, ⊥ Perpendicular to Fiber Axis.