

# Carbon Fiber

Custom Materials



## Physical Data

Specific Gravity	1.80 - 2.20
Tensile Strength	—
Compressive Strength	106,000 psi
Flexural Strength	140,000 psi
Hardness - M Scale	85
Bond Strength	—
Shear Strength	—
Flammability Rating	—
Maximum Operating Temperature	260°F
Thermal Expansion Coefficient °C (x 10 <sup>-5</sup> )	—
Water Absorption (24 Hours)	—
Izod Impact Strength (at 49°C -LW)	7.6

## Product Info

Carbon fiber is a thermoset composite material composed of long, thin carbon filaments and resins.

Available in rods, tubes, and sheets in various dimensions, lengths, diameters and thicknesses.

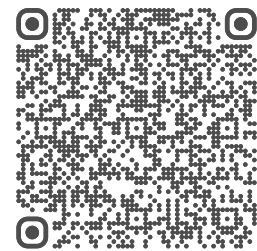
## Capabilities

- Corrosion resistance
- High tensile strength and stiffness
- Durability
- X-ray compatibility
- Lightweight
- Reduced thermal expansion
- Mid-range electrical conductivity
- Nontoxic

## Electrical Data

Dissipation Factor - 106 cycles Condition A	0.015
Dielectric Constant - 106 cycles Condition A	—
Electric Strength V/MIL Condition A	—
Dielectric Breakdown A	—
Permittivity - A	—

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