

CARBON FIBRE ROD

Aeron offers Carbon fibre rod which is manufactured using the pultrusion process with unidirectional stretched carbon fibres and unique resin matrix. It has high stiffness combined with low weight makes it superior compared to traditional steel armouring. Our CFRP Rod has higher fibre volume and is available in continuous length as per the customer requirement.



Advantages

- ✚ Light Weight
- ✚ High Tensile Strength
- ✚ High modulus of elasticity
- ✚ Corrosion Resistance

Applications

- ✚ Aerospace Industry
- ✚ Strengthening member for deep water applications
- ✚ Robots
- ✚ Radio control equipments (Planes/Helicopters)
- ✚ Unmanned Air Vehicles(UAVs)
- ✚ Framework Construction
- ✚ Medical technology (e.g. External Fixator, prosthetics)
- ✚ Telescopic System

Properties

Tests	Results (SI)	Results (US)
Tensile Strength	2340 MPa	340.0 ksi
Tensile Modulus	135 GPa	19.6 msi
Flexural Strength	1830 MPa	265.0 ksi
Flexural Modulus	131 GPa	19.0 msi
Density	1.6 g/cm ³	0.058 lb/in ³
Elongation at Break	1.4 %	1.4 %
Fibre Content	>67 %	>67 %

Product Range

CFRP Rods are available from the diameter ranging from 2mm to 12mm. Custom sizes can be made available on request.

Packaging

The Rods are padded and carefully packed in cardboard tube to avoid transit damage.

AERON COMPOSITE PVT. LTD.

496/P, Tajpur Road, Sarkhej Bawla Highway, Changodar, Tal. Sanand,

Dist. Ahmedabad - 382213 Gujarat, INDIA. **T:** 079-65258500 **W:** www.aeroncomposite.com