



Polycarbonate carbon fiber. High stiffness and heat resistance for demanding structural applications. Demanding structural applications. Highest strength FDM material.

**STRENGTHS**

- + Highest stiffness in FDM
- + Excellent heat resistance
- + Carbon fiber reinforced

**LIMITATIONS**

- Abrasive on nozzles
- Anisotropic strength
- Premium pricing

**CATEGORY**

Tough & Durable

**TECHNOLOGY**

FDM (Fused Deposition Modeling)

**SERVICES**

prototyping, production

**INDUSTRIES**

Aerospace & Defense, Automotive, Robotics & Hardware

**AVAILABLE COLORS**


Black

**MECHANICAL PROPERTIES**

PROPERTY	VALUE
Tensile Modulus	8 GPa
Tensile Strength (UTS)	64 MPa
Elongation at Break	4.6%
Flexural Modulus	3.5 GPa
Flexural Strength	94 MPa
Impact Strength (Izod)	75 J/m
Hardness	Shore D 83

**PHYSICAL PROPERTIES**

PROPERTY	VALUE
Density	1.22 g/cm <sup>3</sup>
Surface Roughness	20 Ra μm
Heat Deflection (HDT)	114 °C @ 0.45 MPa
Min Layer Height	200 μm
Light Transmission	Opaque
Max Build Dimension	360 mm