

## Description

- 10% carbon fiber content, offering high strength and toughness, low warping, excellent impact resistance, lightweight durability, and safe, eco-friendly performance.
- Smooth and delicate surface with a unique matte finish, premium texture, and reduced visible layer lines. High-precision forming, exceptional dimensional stability, and easy to print.
- Widely compatible with mainstream FDM filament 3D printers.

## Technical Properties

TECHNICAL DATA - FILAMENT PROPERTIES	
<b>Appearance</b>	Black FDM 3D Printing Filament
<b>Melt Flow Rate (170°C/2.16kg)</b>	10g/(10min)
<b>Density (25 °C)</b>	1.25g/cm <sup>3</sup>

TECHNICAL DATA – MECHANICAL PROPERTIES		
Property Description	ASTM Method	PETG-CF
<b>Rockwell Hardness (R)</b>	ASTMD-D-785	119
<b>Melting Point (°C)</b>	DSC	190-210
<b>Vicat Softening Temperature A/120 (°C)</b>	ASTMD-648	72
<b>Tensile Strength (MPa)</b>	ASTM D-638	56
<b>Flexural Strength (MPa)</b>	ASTM D-790	88
<b>Flexural Modulus (MPa)</b>	ASTM D-790	2280
<b>Notched Impact Strength (kJ/m<sup>2</sup>)</b>	ASTM D-256	0.78
<b>Water Absorption (%)</b>	ASTM D-570	< 1

Recommended Printing Parameters	
Items	Recommended value
Nozzle Temperature	240-260 °C
Platform Temperature	70 °C
Cooling Fan	0
Environment Humidity	20% RH and below
First-layer Speed	30 mm/s
First- Layer Infill Speed	50 mm/s
Outer Wall Speed	50 mm/s
Inner Wall Speed	60 mm/s
Infill Speed	60 mm/s
Top-layer Speed	50 mm/s