



FILATECH
Making It Better

FilaCarbon Filament

FilaCarbon – ABS-CARBON FIBER 3D PRINTING FILAMENT

FilaCarbon is an ABS-based compound which is made of high-quality ABS resin and premium carbon fibers.

FilaCarbon is a high performance filament which offers such excellent properties for different engineering applications where Strength, toughness, dimensional stability, light weight and high temperature performance is essential.

FilaCarbon is easy to print like ABS filament, print surface quality is excellent with a grainy good-looking finishing.

FilaCarbon is available in carbon-black color with two 1.75mm and 2.85mm sizes.

OPTIONS:

Size:	1.75	mm +/- 0.03 mm
	2.85	mm +/- 0.03 mm
Color:	Carbon Black	
Packaging:	0.5	Kg Spools
	1.0	Kg Spools
	6.0	Kg Spools

FEATURES:

- ABS-based Carbon Fiber Compound
- Excellent Toughness
- Professional grainy-looking Finishing
- Good Performance in wide range of temperature
- Easy and Stable Printing
- Excellent printing quality
- Easy to Print in ordinary 3D printers with heated bed
- Heated Bed is required
- Low Shrink and Warping
- Good bed adhesion
- Shall be printed with 0.6-0.8mm hardened steel nozzle

SPECIFICATIONS:

Filament Material:	FilaCarbon	
Specific Gravity:	1.14	gr/cm ³
Size:	1.75	mm +/- 0.03 mm
	2.85	mm +/- 0.03 mm
Printing Information:	Extruder: 230 – 260 °C	
	Bed: 90 – 110 °C	
Working Temperature:	Up to 102 °C	

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ENGINEERING PROPERTIES:

Property	Test Method	Unit	Result
Density	ASTM D792	g/cm ³	1.14
Tensile Strength	ASTM D638	MPa	111
Elongation At Break	ASTM D638	%	2.0-4.0
Flexural Strength	ASTM D790	Mpa	11,800
Flexural Module	ASTM D412	%	720
Izod Impact Strength	ASTM D570	%	0.14
HDT (heat Deflection Temperature)	ASTM D648	C	102
Surface Sensitivity	ASTM D257	Ω	10 ² -10 ⁵

CERTIFICATES:

Management : BS EN ISO 9001:2015
Quality: CE (CE-2924)
Environment: RoHS (UQ-5724)