

CARBON-P

CARBON-P is our 15% carbon fiber reinforced PET-G based filament. The result is a more than twice as stiff filament as PET-G with increased impact and heat resistance (Vicat) to 79°C. This, together with other features, such as a matt surface, no warp, dimensionally stable and extremely forgiving to print, makes CARBON-P suitable for a very wide variety of applications besides the typically mentioned RC parts, drones, automotive and more

Material features:

- 15% Carbon fiber reinforced PET-G
- Extremely stiff
- Increased impact and heat resistance
- No warping and dimensionally stable
- Matt surface
- Abrasive (see * at additional info*)



Colours:

CARBON-P is available from stock in it's natural dark grey. Other colours on request.

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Packaging:

CARBON-P is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

Filament specs.

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,19 g/cc
MFR 200°C/5 kg	ISO 1133	3,7 g/10min
Tensile Strength at Yield	ISO 527	93 Mpa
Tensile Strength at Break	ISO 527	92 Mpa
Elongation-Strain at Yield	ISO 527	2,6%
Elongation-Strain at Break	ISO 527	3,4%
Tensile modulus	ISO 527	9495 Mpa
Impact strength - Charpy notched 23°C	ISO 179	5 kJ/m2
Printing temp.	DF	240±10°C
Vicat softening temperature	ISO 306	79°C

Additional info:

Due to virtually no warping of CARBON-P, this filament can also be printed without a heated bed. If you have a heated bed the recommend temperature is ± 35-60°C.

* Please consider the use of a hardened steel nozzle when printing with CARBON-P. The carbon fibers are abrasive and will result in fast wear of regular brass nozzles.

CARBON-P can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.