

MakerPoint CARBON-P

MakerPoint CARBON-P is 20% carbon fiber reinforced PET based filament. The result is a much stiffer filament, with increased impact and heat resistance up to 80°C. Together with other features, such as a matt surface, no warp, dimensionally stable and very easy to print, makes CARBON-P suitable for a very wide variety of applications besides the typically RC parts, drones, automotive and more.

Features:

- 20% Carbon fiber reinforced PET
- Extremely stiff
- Increased impact and heat resistance
- No warping and dimensionally stable
- Matt surface
- Abrasive

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

Colors
MakerPoint CARBON-P is available from stock in dark grey.

3D-printing	
Description	Typical value
Printing technology	FFF
Printing temp.	225-245°C
Heated bed temp.	± 35-60°C
Cooling fan	100%
Flow Rate	100%

Physical properties		
Description	Test method	Typical value
Density	ASTM D792	1,19 g/cc
MFI (300 °C – 1,2 kg)	ISO 1133	N.D.
E-modulus 1mm/min	ISO 527	3800 MPa
Yield stress	ISO 527	52,5 MPa
Yield strain	ISO 527	4,2%
Strain at break 50mm/min	ISO 527	8,0%
Impact Strength Izod Nothed	ISO 180-1A	3,8 kJ/m ²

Thermal properties		
Description	Test method	Typical value
Heat Distortion	ASTM D648	80°C

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The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.



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