Innofil 3D | BASF We create chemistry

Factsheet | PET CF15

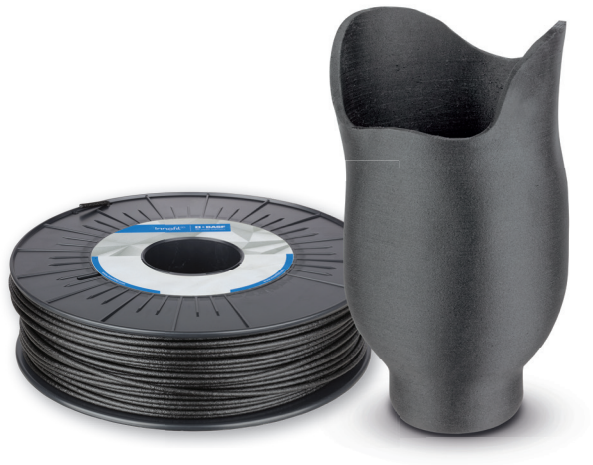
BASF has developed two polymer based composite filaments in order to unlock new possibilities and enable development of demanding industrial applications in FFF printing. Both PET CF15 and PAHT CF15 contain 15% of carbon fiber reinforcement which allows the printed object can withstand higher mechanical and thermal loads. Users will be able to utilize full potential of FFF printing for industrial applications with these two new engineering filaments.

Carbon fiber reinforced PET

PET CF15 is a polyethylene terephthalate reinforced with 15% carbon fiber. This engineering filaments is easier to process among other carbon fiber reinforced filaments in our portfolio. Users will be able to achieve new 3D printed objects that can work under higher mechanical and thermal loads.

PET CF15 is an engineering filament optimized to allow the users develop new applications with 3D printing that have higher requirements. With its heat resistance, high strength and stiffness, it is a filament for wide range of industrial applications. Its high dimensional stability and very low moisture uptake makes it a perfect solution for applications that work in humid environment.

Superior **PET for industrial use**



Prosthetic leg socket in PET CF15

PET CF15 combines easy processability, very low moisture uptake with high level of strength and stiffness at an affordable cost.

Advantages of PET CF15

- Strong and stiff parts
- Easy process
- Very low moisture absorption
- Heat resistant up to 100 °C
- High dimensional stability
- Compatible with hips for breakaway support
- Excellent surface finish

Guideline for Print Settings	
Print speed	40 – 80 mm/s
Print temp.	245 – 265 °C
Nozzle	Hardened/Ruby Nozzle ≥ 0.6 mm diameter
Bed temp.	30 °C
Adhesion	Clean glass
Fan speed	0%
Layer Height	≥ 0.2

Visit Innofil3D.com to learn more.

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