



Ultrafuse® PET CF15

Combines Easy Processability and very Low Moisture Uptake with Excellent Strength and Rigidity – at an Affordable Cost

Ultrafuse® PET CF15 is a polyethylene terephthalate reinforced with 15 % carbon fiber. This engineering filament is easier to process than other carbon fiber reinforced filaments. Users will be able to 3D-print new components that remain fully functional under higher mechanical and thermal loads.

Ultrafuse® PET CF15 is an engineering filament optimized to enable users to develop new 3D printing applications with higher requirements. With its superior heat resistance, high strength and rigidity, this is a filament for a wide range of demanding industrial applications. Its high dimensional stability and very low moisture uptake makes it a perfect solution for applications in humid operating environments.

Benefits at a Glance

- Strong, rigid components
- Easy to process
- Very low moisture absorption
- Heat resistant up to 74 °C
- High dimensional stability
- Compatible with HIPS for breakaway support
- Excellent surface finish

Example Applications

- Automotive
- Jigs and fixtures
- Applications for humid operating environments

Material Properties

Tensile Strength (MPa)	12.5 (ZX), 63.2 (XY)
Flexural Modulus (MPa)	2253(ZX), 6293 (XZ), 5452 (XY)
Elongation at Break	0.5 % (ZX), 3.7 % (XY)
Impact Strength Izod notched (kJ/m ²)	2.0 (z-x), 5.0 (XZ), 5.7 (XY)
Impact Strength Izod unnotched (kJ/m ²)	2.4 (ZX), 22.6 (XZ), 25.1 (XY)
HDT @ 0.45 MPa	108 °C

Print Guidelines

Print speed	30-80 mm/sec
Nozzle Temperature	250-270 °C
Nozzle	Hardened/ruby nozzle ≥ 0.6 mm diameter
Bed Temperature	65-85 °C
Bed Modification	Glass or PEI
Fan Speed	0 %
Layer Height	0.2-0.4 mm

The product data is provided in good faith and represents typical properties based on our current knowledge and experience; these data are not to be construed as specification limits or minimum values. Product properties may be changed without notice. This document does not create any liability, warranty or guarantee of product performance. It is the buyer's responsibility to determine the suitability of Ultrafuse® products for the intended application.



Ultrafuse® PET CF15



www.forward-am.com



sales@basf-3dps.com



Phone: +49 6221 67417 900