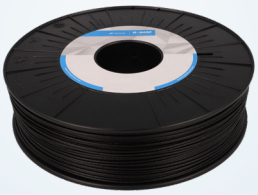
FORWARD AM
Innovating Additive Manufacturing

BASF
We create chemistry



Ultrafuse® PP GF30

Ultrafuse® PP GF30 contains 30% glass fibers that are specifically designed for 3D printing filaments making Ultrafuse® PP GF30 compatible with any conventional FFF printer. PP has a lower moisture uptake than PA which makes Ultrafuse PP GF30 fully printable without need for drying. In combination with its high level of glass fiber reinforcement and its excellent chemical resistance, Ultrafuse® PP GF30 is the preferred filament for exceptional harsh environments. Thanks to its UV resistance it is more suitable than any other PP-based filament for applications directly exposed to sunlight.

Benefits at a Glance

- Excellent chemical resistance
- Low density
- Low moisture uptake
- High heat resistance
- Improved UV resistance

Example Applications

- Automotive / transportation
- Functional prototyping
- Jigs and fixtures

Material Properties

Tensile Strength (MPa)	41,7 (XY); 15,9 (ZX)
Elongation at Break (%)	4,4 (XY); 0,8 (ZX)
Flexural Modulus (MPa)	3507 (XY); 4026 (XZ); 1671 (ZX)
Impact Strength Charpy unnotched (kJ/m2)	23,1 (XY); 25,8 (XZ); 2,5 (ZX)
Impact Strength Izod unnotched (kJ/m2)	20,5 (XY) , 2,4 (XZ); 2,6 (ZX)
HDT @ 0,45 MPa	127 °C

Printing Guidelines

Nozzle Temperature	240-260 °C
Bed Temperature	20-40 °C
Nozzle Diameter	≥ 0.6 mm
Bed Modification	PP tape or PPGF adhesive
Print Speed	30-80 mm/sec

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