FORWARD AM
Innovating Additive Manufacturing

BASF
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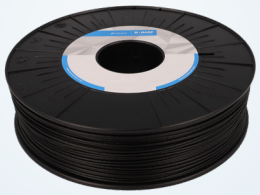

Ultrafuse® PC GF30

Ultrafuse® PC GF30 is a unique compound of PC with 30% glass fibers, specially designed for FFF printing. With its high heat deflection temperature and good dimensional stability, Ultrafuse® PC GF30 is the right material to use in an industrial environment where good temperature resistance and high strength is needed.
Its UL94 V0 rating makes PC GF30 the perfect solution for applications in transportation industry that require flame retardancy. The resistance to UV light exposure and its low moisture uptake makes Ultrafuse® PC GF30 highly suitable for interior and exterior applications.

Benefits at a Glance

- UL94 V0 flame retardancy
- Resistance to UV light exposure
- Good temperature resistance
- High stiffness and strength
- Good heat deflection temperature
- High dimensional stability
- Very low moisture absorption

Example Applications

- Automotive / transportation
- Functional prototyping
- Electronics

Material Properties

Tensile Strength (MPa)	36,1 (XY); 11,2 (ZX)
Elongation at Break (%)	2,4 (XY); 1,1 (ZX)
Flexural Modulus (MPa)	2690 (XY); 3450 (XZ); 934 (ZX)
Impact Strength Charpy unnotched (kJ/m2)	17,1 (XY); 18,9 (XZ); 3,7 (ZX)
Impact Strength Izod unnotched (kJ/m2)	13,9 (XY); 17,8 (XZ); 3,4 (ZX)
HDT @ 0,45 MPa	134 °C

Printing Guidelines

Nozzle Temperature	280-330 °C
Bed Temperature	80-100 °C
Nozzle Diameter	≥ 0.6 mm
Bed Modification	PC adhesive
Print Speed	30-60 mm/sec

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