



# 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

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

## Printing Guidelines

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

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