



# Ultrafuse® PA6 GF30

Ultrafuse® PA6 GF30 is a unique compound specifically developed for FFF printing. Due to the glass fiber content of 30%, parts tend to warp less. In addition the excellent layer adhesion and its compatibility with the water soluble support Ultrafuse® BVOH make this material the perfect solution to develop industrial applications on an FFF printer. With its high wear and chemical resistance, high stiffness and strength, Ultrafuse® PA6 GF30 is perfect for a wide variety of applications in automotive, electronics or transportation.

## Benefits at a Glance

- Very high stiffness and strength
- Good chemical resistance
- Resistance to UV light exposure
- High wear resistance
- Excellent layer adhesion
- Works with BVOH

## Example Applications

- Automotive / transportation
- Industrial tooling
- Functional prototyping

## Material Properties

<b>Tensile Strength (MPa)</b>	78,3 / 46,4 (XY); 14,9 / 12,2 (ZX)
<b>Elongation at Break (%)</b>	2,2 / 3,2 (XY); 0,8 / 1,9 (ZX)
<b>Flexural Modulus (MPa)</b>	4694 / 2861 (XY); 8103 / 4300 (XZ); 2371 / 1070 (ZX)
<b>Impact Strength Charpy unnotched (kJ/m<sup>2</sup>)</b>	38,9 / 41,8 (XY); 45,5 / 48,8 (XZ); 2,2 / 3,1 (ZX)
<b>Impact Strength Izod unnotched (kJ/m<sup>2</sup>)</b>	38,4 / 36,9 (XY); 38,7 / 41,4 (XZ); 2,6 / 3,8 (ZX)
<b>HDT @ 0,45 MPa</b>	110 / 114 °C

\*dried / conditioned

## Printing Guidelines

<b>Nozzle Temperature</b>	240-280 °C
<b>Bed Temperature</b>	passively heated, closed chamber
<b>Nozzle Diameter</b>	≥ 0.6 mm
<b>Bed Modification</b>	glass
<b>Print Speed</b>	30-60 mm/sec

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