



## **Ultrafuse® Pellets PC GF30**

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### **High-Strength Micro Pellets:**

Low-warping, Flame Retardant, High-Temperature Resistant Extrusions

Material Overview



## **OVERVIEW**

Introducing Ultrafuse® Pellets PC GF30: These advanced polycarbonate (PC) micro pellets, reinforced with 30% glass fiber, deliver unmatched stiffness, superior temperature stability, and certified flame retardancy (V0).

### Easy-To-Print for Demanding High Temp. Applications

Perfect for challenging applications such as tools, molds, and high-temperature parts, they excel in both desktop and industrial 3D printing environments. These easy-to-print micro pellets ensure low warp results with outstanding surface quality while preserving the core properties of polycarbonate.

### Wide-Ranging Industrial Applicability:

Featuring outstanding flame retardancy (V0 UL 94) and railway classification (EN 45545-2), Ultrafuse® PC GF30 are ideal for automotive, railway, aerospace, and industrial applications, providing reliable high-quality results.

## **QUICK FACTS**

### **Material:**

- Glass Fiber Reinforced
  Polycarbonate Micro-Pellets
- Color: Dark Gray

### **Offer:**

- Pellet size: Micro Pellets
- Shape: Cylindrical
- Diameter & Length: ~2mm
- 20 kg in a box with 2\*10 kg bags

### **Key Benefits:**

- PC with the right choice of flame retardancy: V0 according to UL 94 (@1.5mm and 3.0mm
- Tested for the demanding field of transportation: Railway classification according to EN 45545-2
- Resistance to UV light exposure: Extended range of applications thanks to UV stabilization
- Excellent temperature resistance: High heat deflection temperature and temperature stability
- High stiffness and strength: High glass fiber filling for exceptional stiffness and strength



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# **Ultrafuse**® Pellets PC GF30

### **Product Line:**

Ultrafuse® Micro Pellets – Engineering Line

Technology:

### Key Benefits:





Flame

Improved UV





High Stiffness High Heat Resistance and Stiffness Quality Deflectability

## Suited for:



Functional Prototypes



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This information and values are presented as guidance only and based on Forward AM's knowledge and experience. It is believed to be accurate, however all guarantees are explicitly denied. This document was updated July 2024.



## **TECHNICAL SPECIFICATIONS**

Mechanical properties*	Standard	Value xy/xz/zx
HDT (0.45 MPa) (°C)	ISO 75-2	134,0
Tensile Strength (MPa)	ISO 527	36,1 / - / 11,2
Elongation at Break (%)	ISO 527	2,4 / - / 1,1
Young's Modulus (MPa)	ISO 527	2664,0 / - / 1231,0
Impact Strength Izod (notched) (kJ/m <sup>2</sup> )	ISO 180	5,6 / 5,4 / 2,1
Impact Strength Izod (unnotched) (kJ/m <sup>2</sup> )	ISO 180	13,9 / 17,8 / 3,4
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\*measured on respective filament

## **PRINT SETTINGS**

### **Drying Recommendations**

Temperature	100 °C
Time	8 - 10 h
Condition	<300 ppm

Please note: To ensure constant material properties the material should always be kept dry.

### **Recommended Extrusion Parameters**

Zone 1 Temperature	250 ± 20 °C
Zone 2 Temperature	285 ± 20 °C
Zone 3 Temperature	285 ± 20 °C
Nozzle Temperature	300 ± 20 °C
Extrudate Temperature	90 ± 10 °C

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