



Ultrafuse® Pellets PP GF30

Premium Glass Fiber Reinforced Micro-Pellets:

Excellent Extrusion and Surface Quality in
Demanding Applications

Launch Package

08-07-2024



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Product Introduction: Ultrafuse® Pellets PP GF30

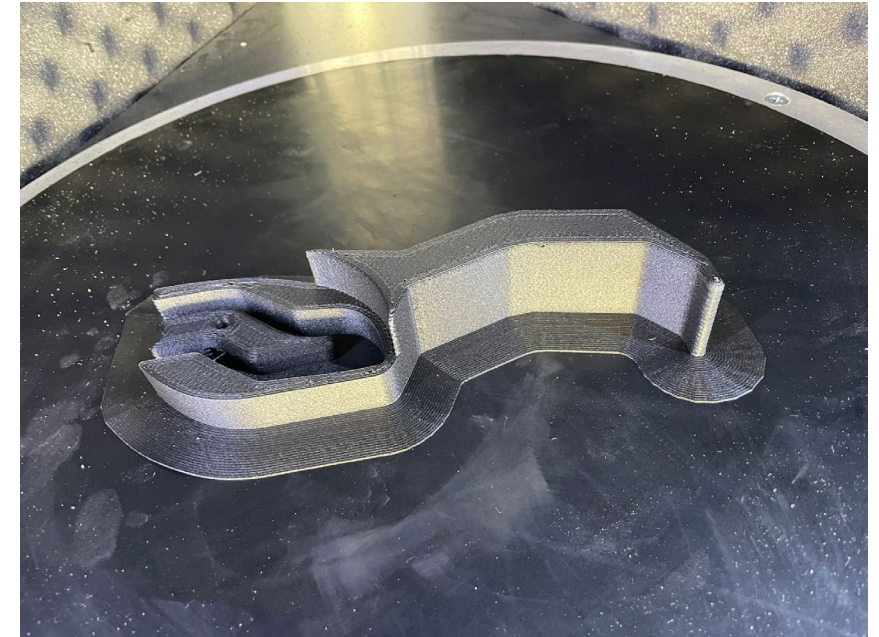
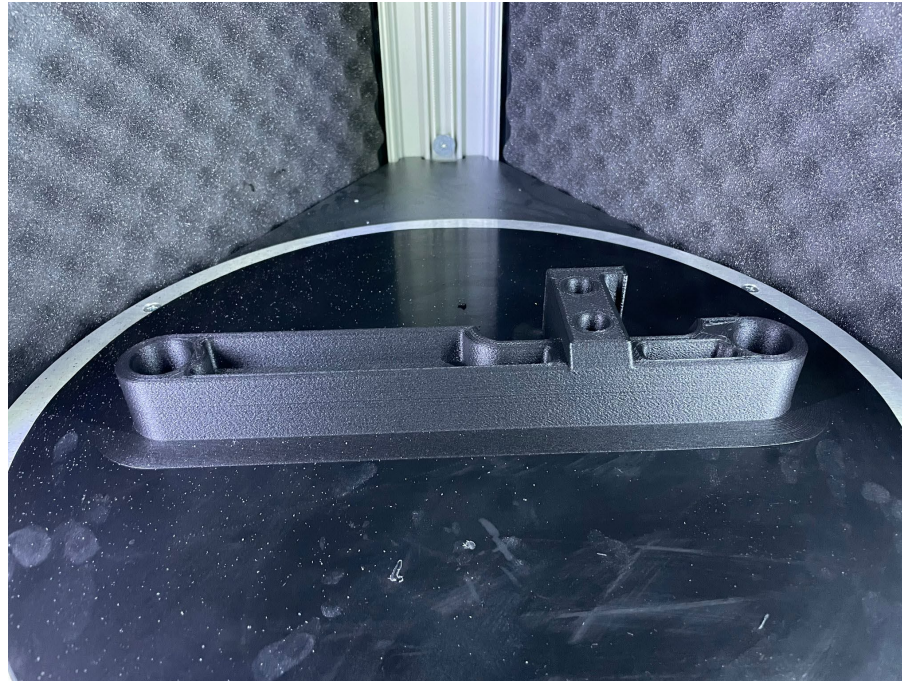
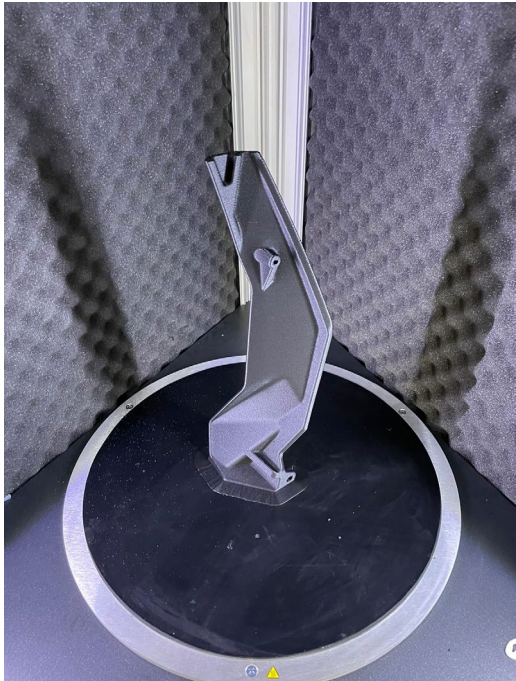


Product overview

Introduction

■ Easy to print pellets for Large Scale AM and entry level machines, **Ultrafuse® Pellets PP GF30**

- ▶ Introducing Ultrafuse® PP GF30: These high-performance polypropylene (PP) micro pellets are reinforced with 30% glass fiber, ensuring high stiffness, high heat resistance, and enhanced UV stabilization. Designed for demanding applications such as tools, molds, and holders, as well as environments sensitive to moisture or chemicals, they deliver exceptional performance.



Product overview

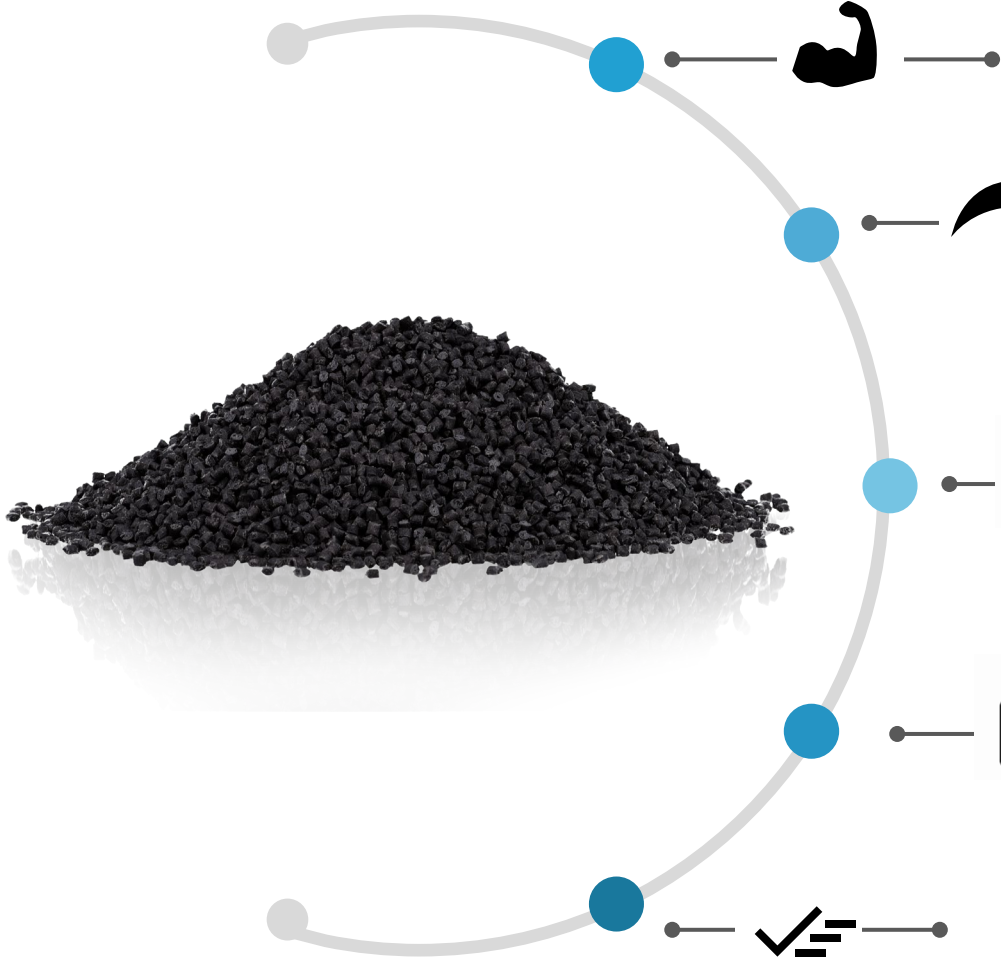
Key features

■ **Ultrafuse® Pellets PP GF30**

- ▶ **Excellent chemical resistance:** Preserving the Inherent Properties of Homopolymer PP
- ▶ **High Stiffness:** Reinforced with 30% Glass Fiber
- ▶ **Low density:** PP has naturally a low density
- ▶ **Low moisture uptake:** The wax-like base structure of PP polymers has natural water-repellency
- ▶ **Excellent for demanding applications:** High heat resistance, protection from moisture absorption
- ▶ **Improved UV resistance:** UV stabilizers ensure long service life of parts, even outdoors

Ultrafuse® Pellets PP GF30

Messaging: Claims



High Performance and Durability: Enhanced with 30% glass fiber and UV stabilization, Ultrafuse® PP GF30 offers high stiffness, high heat resistance, and enhanced durability, making it suitable for chemically and humidity-resistant applications..

True Polypropylene Made Easy: Ultrafuse® PP GF30 brings the benefits of genuine homopolymer PP to 3D printing with user-friendly processing, making it ideal for hobbyists and professionals alike.

Enhanced Printability and Consistent Extrusion: Designed with micro pellet dimensions, Ultrafuse® PP GF30 ensures easy feeding and excellent extrusion results across virtually all extruder systems, including those with small screw diameters, while overcoming the challenges of regular homopolymer PP.

Outstanding Surface Quality: Achieve detailed and homogeneous surfaces without compromising on speed or experiencing warpage, thanks to the consistent extrusion flow and high degree of filling.

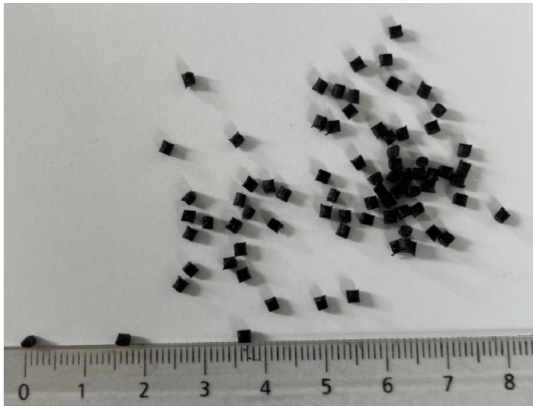
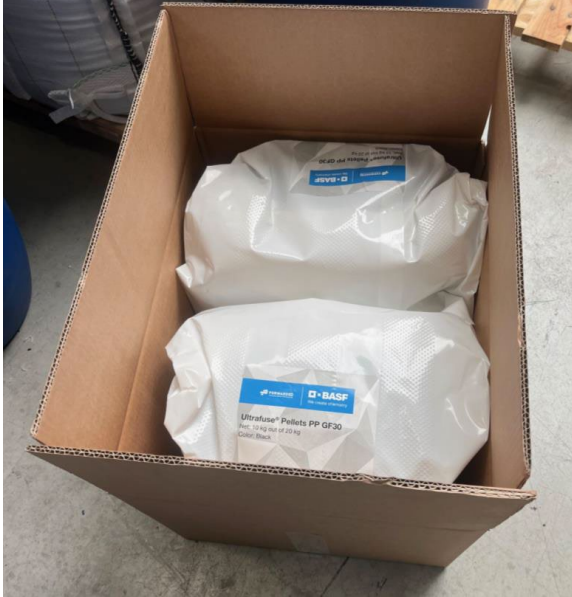
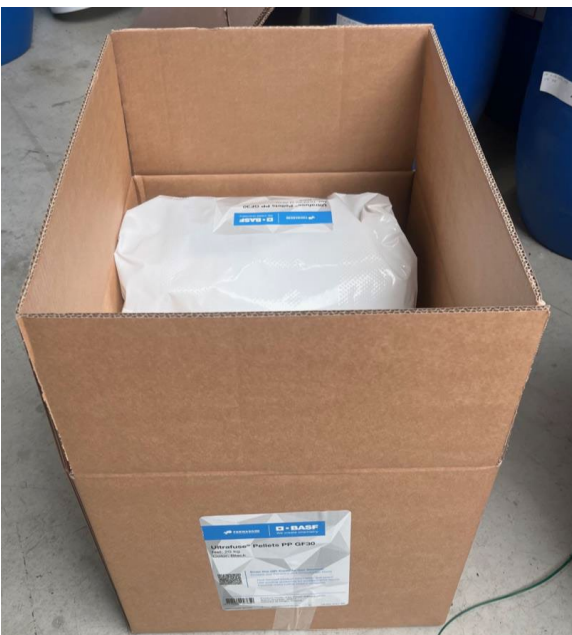
Versatile and Broad Applicability: Ultrafuse® PP GF30 is perfect for creating jigs & fixtures, tooling, manufacturing aids, chemical-resistant molds, housing, and functional prototypes, both indoors and outdoors.

Product overview

Product configuration offer

- **Engineering-grade Pellets**
- **Ultrafuse® Pellets PP GF30**
 - ▶ Weights: 20 kg in a box with 2*10 kg bags
 - ▶ Diameters: 2mm
 - ▶ Length: 2mm
 - ▶ Shape: Cylindrical
 - ▶ Colors: Black

BI number	ART no. Cobalt	ART no. SAP B1	BI name/mat. description	Portfolio	Category
972860	50849613	Plts-PPGF-99590m0020	Ultrafuse® Pellets PP GF30 – 2*10 kg	AES	Pellets



Ultrafuse® Pellets PP GF30

QR-Code

Easy to use feature too access up-to-date product information seamlessly:

- Technical data sheet
- Processing Parameters
- Links to material landing page, print profiles, ...
- Survey, to collect end-user feedback



Scan the product [QR code](#)



Access our **Technical Data Sheet** for 3D printer settings and material properties.

[Technical Data Sheet](#)

Access your **product quality assurance report** through our Certificate of Analysis (CoA) database and enter the unique five-digit batch number, which is located on the spool label.

[CoA Database](#)

Access our **material landing page** for: Print Profiles, Product Leaflet, Technical Data Sheet, Safety Data Sheet, Use Cases and more (Specific content available in multiple languages).

[Material Landing Page](#)

Your feedback matters, take our **2 minute survey** now and help us to drive innovation and advance our next product.

[Give your Feedback!](#)

Ultrafuse® Pellets PP GF30

FORWARD AM
Innovating Additive Manufacturing

BASF
We create chemistry

Ultrafuse® Pellets PP GF30
Net: 10kg out of 20 kg
Color: Black

Scan the QR-Code to Get Started!
Access our Forward AM Knowledge Base

- Find detailed product information and specs
- Use printing guidelines for excellent print results
- Discover many further helpful resources

8 718969 927758

Product Code: PIts-PPGF-99590m0020
Batch Number: 56627
Country of Origin: France

www.forward-am.com | sales@forward-am.com | +49 6221 67417 900



Ultrafuse® Pellets PP GF30

Processing parameters

Drying Recommendations

Temperature	Min. 55 °C; Max. 70 °C (prevent sticking)
Time	4 - 16 h
Condition	<1000 ppm

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

Recommended Extrusion Parameters

Zone 1 Temperature	210 ± 10 °C
Zone 2 Temperature	225 ± 10 °C
Zone 3 Temperature	235 ± 10 °C
Nozzle Temperature	250 ± 10 °C
Bed Temperature	80 ± 10 °C

Positioning, Target Audience:



Ultrafuse® Pellets PP GF30

Positioning

- Ultrafuse® Pellets PP GF30 is positioned as the high-performance 3D printing material of choice that overcomes the traditional challenges of polypropylene, offering enhanced printability, durability, and versatility for both hobbyists and professionals. With its glass fiber reinforcement and UV stabilization, it ensures smooth extrusion, superior surface quality, and reliable performance in chemically and humidity-sensitive applications across a wide range of industries.
 - ▶ Ultrafuse® Pellets PP GF30 is specifically designed for easy to print and consistent extrusion performance. It shows low warping and without compromises in the choice of material.
 - ▶ Regular homopolymer PP is extremely hard to print due to the high degree of crystallinity. The specially tailored formulation and the micro shape dimensions of the pellets makes this material fascinating easy to print.



Ultrafuse® Pellets PP GF30

Target audience

- **Hobbyists and Makers:** Looking for true PP but easy to print and processing.
- **Professionals:** Engineers, operators, designers, and product develops requiring functional prototypes or serial parts, from detailed to large scale printed parts with chemically and humidity resistance.
- **Industries:** Water treatment, waste handling, production machinery, automotive, consumer electronics, and more, where easy to print and low warp durable PP parts are crucial.

- **Target Applications:**
 - ▶ **Jigs & fixtures**
 - ▶ **Tooling**
 - ▶ **Manufacturing aids**
 - ▶ **Any kind of molds**
(especially if chemicals are involved)
 - ▶ **Housing and functional prototyping**

Messaging & Content



Ultrafuse® Pellets PP GF30

Messaging: Tagline and Introduction

- **Ultrafuse® Pellets PP GF30: Premium Glass Fiber Reinforced Micro-Pellets for Excellent Extrusion and Surface Quality in Demanding Applications.**
 - ▶ Introducing Ultrafuse® Pellets PP GF30: These high-performance polypropylene (PP) micro pellets are reinforced with 30% glass fiber (GF30), ensuring high stiffness, high heat resistance, and enhanced UV stabilization.
 - ▶ Designed for demanding applications like tools, molds, and holders, as well as environments sensitive to moisture or chemicals, they deliver exceptional performance.
 - ▶ Ideal for both desktop and industrial 3D printing, these easy-to-print micro pellets guarantee outstanding surface quality while preserving the inherent properties of homopolymer PP.



Ultrafuse® Pellets PP GF30

Messaging: Detailed Description

- **Ultrafuse® Pellets PP GF30: Premium Glass Fiber Reinforced Micro-Pellets for Excellent Extrusion and Surface Quality in Demanding Applications.**
 - ▶ Ultrafuse® PP GF30 pellets work smoothly with virtually all extruder systems, thanks to their micro pellet dimensions that allow easy and consistent feeding.
 - ▶ With consistent extrusion flow and a high degree of filling, Ultrafuse® Pellets PP GF30 achieves detailed and homogeneous surface qualities without compromising speed or warpage, making it perfect for both beginners and professionals in prototyping or series production.

Ultrafuse® Pellets PP GF30

Content

■ Partner Resource Center Content

▶ Material and document overview:

- Launch Package
- Material Onepager
- Product Images
- Application Images
- TDS: EN
- MSDS: Ultrafuse® Pellets PP GF30 EN, DE;

■ Website (Available Mid of July):

- ▶ Product Line Page
- ▶ Product Page
- ▶ Educational Material: “Blog-Article: Leveraging Micro Pellets for Cost-Effective 3D Printing”



Disclaimer

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- The displayed MSRP pricing displayed is for reference only and may vary depending on the region and currency. The MSRP pricing is subject to change without prior notice. The latest and most accurate pricing for the Ultrafuse Pellets PP GF30 and other products are available on request by contacting sales@forward-am.com

Ultrafuse® Pellets

Contact Details

At Forward AM we strive to provide you with the best service possible.

If you have **questions about our materials, technologies or services**, or would like to **request an expert consultation**, we will be delighted to hear from you!

**Any questions left?
Let's talk!**



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We create chemistry



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