

# TECHNICAL DATA SHEET

ReForm rPETG GF10 + UV

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## ReForm rPETG GF10 + UV – UV-Stabilized, Glass Fiber Reinforced rPETG workhorse material for LFAM

ReForm rPETG GF10 + UV, developed by FormFutura, is a high-performance 10% glass fiber reinforced rPETG compound engineered for Large Format Additive Manufacturing (LFAM) applications that require a balanced combination of strength, dimensional stability, and printability.

Enhanced with UV stabilization, this material offers reliable resistance against UV-induced degradation and color fading, making it suitable for both indoor and outdoor use.

Produced from 100% post-industrial recycled PETG and reinforced with 10% glass fibers, ReForm rPETG GF10 + UV delivers an optimal balance between mechanical performance, sustainability, and processing ease. This makes ReForm rPETG GF10 + UV an excellent choice for a wide range of industrial and functional applications.

## Balanced Performance with Glass Fiber Reinforcement

The addition of 10% glass fibers (GF10) enhances the material's properties while maintaining good processability:

- Improved stiffness and strength compared to standard PETG;
- Enhanced dimensional stability for large-format prints;
- Reduced warping and shrinkage during printing;
- Printing with fine detail compared to higher glass fiber filled materials.

This makes ReForm rPETG GF10 + UV ideal for applications where mechanical performance is required without sacrificing ease of printing.

## Optimized for LFAM Printability

ReForm rPETG GF10 + UV is specifically formulated to perform reliably in LFAM systems:

- Excellent layer adhesion for strong, durable parts;
- Consistent extrusion behavior for large-scale production;
- Lower processing complexity compared to higher fiber-filled materials.

The result is a stable, easy-to-print material suitable for both prototyping and end-use parts.

## UV-Resistant Material for Long-Term Indoor and Outdoor Use

Due to its UV-resistant formulation, ReForm rPETG GF10 + UV is suitable for both indoor and outdoor applications. The material maintains its appearance and mechanical performance over time when exposed to sunlight, making it a reliable choice for long-lasting installations. With its integrated UV stabilizers, this compound ensures:

- Long-term resistance to sunlight exposure;
- Reduced discoloration and material degradation;
- Reliable performance in outdoor environments.

## Surface Finish & Processing Characteristics

ReForm rPETG GF10 + UV provides a functional semi-matte surface finish with moderate texture, typical for glass fiber reinforced materials. It offers a good balance between aesthetic quality and structural performance.

## Excellent Processability & Post-Processing

ReForm rPETG GF10 + UV offers outstanding mechanical performance and ease of use in LFAM systems. Printed parts can be easily drilled, sawn, screwed, or adhesive bonded, allowing seamless integration into complex assemblies and finished products.

## Key Features of ReForm rPETG GF10 + UV

- **LFAM-Optimized Printability** – Easy processing and reliable performance in large-format 3D printing.
- **10% Glass Fiber Reinforcement** – Enhanced stiffness and mechanical strength.
- **UV-Resistant Formulation** – Designed for long-term outdoor use, maintaining both performance and aesthetics under UV exposure.
- **High Dimensional Stability** – Accurate and stable large-format parts.
- **Impact & Wear Resistance** – Durable under mechanical stress



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- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PETG, ensuring consistent quality, reliability, and traceability throughout the production process.

## Typical Applications of ReForm rPETG GF10 + UV

- **Electrical & Electronic Enclosures** - Non-conductive and suitable for protective housings and covers, including outdoor use.
- **Architectural & Construction Components** - Ideal for panels, facade elements, and structural prototypes requiring stability and UV resistance.
- **Furniture & Design Applications** - Used for functional furniture, design objects, and installations where strength and durability are required.
- **Automotive & Industrial Parts** - Suitable for brackets, housings, and functional components exposed to mechanical stress and environmental conditions.

## Why Choose ReForm rPETG GF10 + UV?

ReForm rPETG GF10 + UV is the ideal choice for LFAM users seeking a well-balanced material that combines mechanical strength, dimensional accuracy, UV resistance, and ease of processing. All within a sustainable recycled PETG solution.

Material properties	Typical value	Test Method
MFI (275°C, 2.16kg)	55 g/10min	ISO 1133-1
Density (23°C)	1,34 g/cm <sup>3</sup>	ISO 1183-1
Granule moisture	<0,20%	
<b>Mechanical properties</b>		
Tensile strength (5mm/min)	70 MPa	ISO 527
Tensile E-modulus	4200 MPa	ISO 527
Elongation at break	4%	ISO 527
Charpy impact strength (23 °C notched)	5 kJ/m <sup>2</sup>	ISO179
<b>Thermal properties</b>		
HDT A	72 °C	ISO 75
HDT B	81 °C	ISO 75
<b>Flammability properties</b>		
Flammability (3mm)	HB	UL94 equivalent

## Processing ReForm rPETG GF10 + UV

**Drying:** 6-10hrs at 60-65 °C (<400ppm / 0,04%) \*

**Do not exceed a drying temperature of 65 °C, as higher temperatures may cause pellet softening and caking within the drying hopper.**

**Zone 1:** 220°C ±20 °C

**Zone 2:** 230°C ±20 °C

**Zone 3:** 240°C ±20 °C

**Max temp:** 260 °C

**Die temp:** 240°C ±20 °C



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## Storage and handling of ReForm rPETG GF10 + UV

ReForm rPETG GF10 + UV is an inert and safe material under standard storage conditions, presenting no significant hazards. To ensure maximum quality, stability, and long-term performance, proper storage practices are recommended.

For best results:

- Store in a tightly sealed container to protect against moisture absorption.
- Keep in a dry, cool, and well-ventilated environment.
- Avoid direct exposure to sunlight or intense artificial light to preserve material integrity.

By following these guidelines, ReForm rPETG GF10 + UV will maintain its reliability and print performance over time.

## Product export information

HS code: 39079980  
Description: PETG resin in primary form  
Origin: European Union

## Disclaimer

*The product and technical data provided in this datasheet are correct to the best of FormFutura BV's knowledge and are intended solely for reference and comparison purposes. Actual values may vary depending on printing conditions, model complexity, environmental factors, and other variables. Typical values are indicative only and do not constitute binding specifications.*

*All other information supplied, including that contained herein, is believed to be accurate but is provided on the express condition that the customer is responsible for making its own assessment to determine the product's suitability for a particular purpose.*

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