

TECHNICAL DATA SHEET

ReForm rPETG GF10

Date of issue: 19-03-2026 / Date of update: 19-03-2026



ReForm rPETG GF10 – Glass Fiber Reinforced rPETG workhorse material for LFAM

ReForm rPETG GF10, 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.

Produced from 100% post-industrial recycled PETG and reinforced with 10% glass fibers, ReForm rPETG GF10 delivers an optimal balance between mechanical performance, sustainability, and processing ease. This makes ReForm rPETG GF10 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 ideal for applications where mechanical performance is required without sacrificing ease of printing.

Optimized for LFAM Printability

ReForm rPETG GF10 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.

Surface Finish & Processing Characteristics

ReForm rPETG GF10 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 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

- **LFAM-Optimized Printability** – Easy processing and reliable performance in large-format 3D printing.
- **10% Glass Fiber Reinforcement** – Enhanced stiffness and mechanical strength.
- **High Dimensional Stability** – Accurate and stable large-format parts.
- **Impact & Wear Resistance** – Durable under mechanical stress
- **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

- **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 visual performance.
- **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.



TECHNICAL DATA SHEET

ReForm rPETG GF10

Date of issue: 19-03-2026 / Date of update: 19-03-2026



Why Choose ReForm rPETG GF10?

ReForm rPETG GF10 is the ideal choice for LFAM users seeking a well-balanced material that combines mechanical strength, dimensional accuracy, 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 ³	ISO 1183-1
Granule moisture	<0,20%	

Mechanical properties

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 ²	ISO179

Thermal properties

HDT A	72 °C	ISO 75
HDT B	81 °C	ISO 75

Flammability properties

Flammability (3mm)	HB	UL94 equivalent
--------------------	----	-----------------

Processing ReForm rPETG GF10

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	

Storage and handling of ReForm rPETG GF10

ReForm rPETG GF10 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 will maintain its reliability and print performance over time.

Product export information

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



TECHNICAL DATA SHEET

ReForm rPETG GF10

Date of issue: 19-03-2026 / Date of update: 19-03-2026



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.

FormFutura BV makes no warranties, express or implied, including but not limited to warranties of merchantability, fitness for a particular purpose, satisfactory quality, non-infringement of intellectual property, or any other matter, with respect to the information provided or the products described herein. No warranty shall be implied from the provision of such information or products, or from the results obtained from their use.

