

TECHNICAL DATA SHEET

ReForm rPETG GB10

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ReForm rPETG GB10 – Ultra-Smooth, Strong, and UV-Resistant rPETG for LFAM Applications

ReForm rPETG GB10, developed by FormFutura, is a high-performance compound engineered specifically for Large Format Additive Manufacturing (LFAM) applications. This advanced material combines the mechanical strength of reinforced PETG with the exceptionally smooth surface finish of virgin PETG, making it ideal for both functional and aesthetic large-scale prints.

By incorporating ultra-smooth glass beads, this compound delivers a significantly enhanced surface quality, resulting in perfectly smooth prints that don't need post-processing anymore. This makes ReForm rPETG GB10 a premium material perfectly suited for furniture production, retail displays, and visual merchandising props, where both appearance and performance are critical.

Excellent Processability & Post-Processing

ReForm rPETG GB10 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.

Glass Bead Technology vs. Glass Fiber Reinforcement

Unlike traditional glass fiber reinforced materials, which often result in a rougher and more abrasive surface finish, ReForm rPETG GB10 offers a unique advantage:

- Comparable mechanical strength and dimensional stability to glass fiber reinforced polymers;
- Ultrasmooth surface finish, eliminating the need for extensive post-processing.

Thanks to its advanced glass bead technology, ReForm rPETG GB10 achieves an unmatched surface quality. In fact, it delivers one of the smoothest surface finishes achievable in LFAM materials, making it the preferred choice for applications where aesthetics and surface quality are just as important as strength.

Key Features of ReForm rPETG GB10

- **Strong with Ultra-Smooth Surface Finish** – Glass bead reinforcement provides an optimal balance between mechanical strength and a refined, high-quality smooth surface appearance.
- **High Impact Strength & Crack Resistance** – Ensures durability and reliability in demanding LFAM and industrial environments.
- **Good Chemical Resistance** – Resistant to common cleaning agents and chemicals, preserving surface integrity over time.
- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PETG, ensuring consistent quality, reliability, and traceability throughout the production process.

Why Choose ReForm rPETG GB10?

ReForm rPETG GB10 by FormFutura stands out due to its innovative formulation:

- **Exceptional Printability** – Minimal warping, excellent layer adhesion and dimensional stability.
- **Ultra-Smooth Surface Finish** – For end use parts straight of the printer without post processing.
- **Recycled & manufactured in the EU** – Sustainable performance without compromising quality

Material properties

Material properties	Typical value	Test Method
MFI (275°C, 2.16kg)	60 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)	50 MPa	ISO 527
Tensile E-modulus	2530 MPa	ISO 527
Elongation at break	10%	ISO 527
Charpy impact strength (23 °C notched)	5 kJ/m ²	ISO179



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Thermal properties

HDT A	66 °C	ISO 75
HDT B	74 °C	ISO 75

Flammability properties

Flammability (3mm)	HB	UL94 equivalent
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Processing ReForm rPETG GB10

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 GB10

ReForm rPETG GB10 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 GB10 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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