

# TECHNICAL DATA SHEET

ReForm rPETG Transparent

Date of issue: 10-02-2025 / Date of update: 19-08-2025



## ReForm rPETG Transparent – Sustainable High-Performance rPETG Pellets for LFAM

ReForm rPETG Transparent is a premium-grade pellet made from 100% recycled post-industrial PETG granulate. This rPETG compound is engineered to combine sustainability with printability and outstanding performance.

ReForm rPETG Transparent pellets combine exceptional clarity with outstanding mechanical properties in terms of durability, toughness and thermal stability. In addition to its superior mechanical properties, ReForm rPETG Transparent is food-contact compliant, making it suitable for applications that demand both safety and reliability. Its consistent processing behavior makes it highly versatile and user-friendly, supporting a wide range of large-format additive manufacturing (LFAM) applications.

By choosing ReForm rPETG Transparent, manufacturers can reduce their environmental footprint while achieving high-quality, transparent PETG components with proven mechanical strength.

## Key Features of ReForm rPETG Transparent Pellets for LFAM

- **Food Contact Compliant** – Manufactured with certified raw materials for safe and reliable applications.
- **Exceptional Transparency** – Ultra-clear finish for visually refined components.
- **100% Recycled & 100% Recyclable PETG** – Contributes to circular manufacturing.
- **Ideal for Large-Scale Prints** – Optimized for consistent performance in LFAM applications.
- **Tough and Durable** – High impact resistance for long-lasting, functional parts.

## Suitable Applications of ReForm rPETG Transparent Pellets for LFAM

- **Furniture and Industrial Design** – Combines aesthetics with mechanical strength. Perfect material for custom furniture pieces, ergonomic components, and artistic installations.
- **Architectural Models and Construction Elements** – Facade panels, structural prototypes, and design elements.
- **Tooling and Molds** – Its dimensional stability and toughness make it ideal for 3D printing large tooling components, thermoforming molds, jigs, and fixtures.
- **Lighting** – Its superb clarity makes ReForm rPETG Transparent ideal for creating large-scale lamp housings and shades that disperse and diffuse light beautifully, combining visual elegance with functional performance.
- **Cost-Efficient Part Production** – enables affordable manufacturing without compromising quality.

Material properties	Typical value	Test Method
MFI (210°C, 2.16kg)	1.8 g/10min	ASTM D 1238
Specific Gravity (23°C)	1,29 g/cm <sup>3</sup>	ASTM D792

### Mechanical properties

Tensile strength at yield (23°C, 50mm/min)	49,8 MPa	ASTM D638
Tensile strength at break (23°C, 50mm/min)	28,6 MPa	ASTM D638
Flexural strength	66.8 MPa	ASTM D790
Elongation at yield (23°C, 50mm/min)	5%	ASTM D638
Elongation at break (23°C, 50mm/min)	165%	ASTM D638
Rockwell Hardness	117	R-scale

### Thermal properties

HDT	77 °C	ASTM D648
Melting Point	196 °C	-

## Processing Recommendations for ReForm rPETG Transparent Pellets for LFAM

**Pre-Drying:** 6-8hrs at 60-65 °C (<40ppm)

For optimal 3D printing results it is recommended to pre-dry ReForm rPETG Transparent pellets to a moisture content below 100 ppm.



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**Zone 1:** 210°C ±20 °C

**Zone 2:** 220°C ±20 °C

**Zone 3:** 230°C ±20 °C

**Max temp:** 240 °C

**Die temp:** 240°C ±20 °C

*Typical extrusion settings may require optimization based on hardware used.*

## Storage and Handling Guidelines for ReForm rPETG Transparent Pellets for LFAM

ReForm rPETG Transparent is considered 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 Transparent will maintain its reliability and print performance over time.

## Product export information

HS code: 39079980

Description: rPETG resin in primary form

Origin: European Union

## Disclaimer

*The product and technical data provided in this datasheet are, to the best of FormFutura B.V.'s knowledge, accurate at the time of publication and are intended solely for reference and comparative purposes. Actual results may vary depending on printing conditions, model design, environmental factors, and other variables. The values presented are typical, non-binding, and should not be interpreted as guaranteed specifications.*

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