TECHNICAL DATA SHEET

ReForm rPETG Frosted + UV
Date of issue: 16-01-2026 / **Date of update:** 16-01-2026

ReForm rPETG Frosted + UV Pellets for LFAM

ReForm rPETG Frosted + UV is a high-performance, translucent white recycled PETG granulate, developed for Large-Format Additive Manufacturing (LFAM). Its frosted surface provides excellent light diffusion, making it an ideal material for lighting, signage, and design applications where smooth, uniform illumination is essential.

Printed parts distribute light evenly, reducing visible light sources and eliminating harsh hotspots. The result is a soft, homogeneous glow that enhances both functional and aesthetic designs.

UV-Resistant Material for Long-Term Use

Thanks to its UV-resistant formulation, ReForm rPETG Frosted + 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.

Thanks to its combination UV resistance, durability, and light-diffusing properties, this material is ideal for a wide range of applications, including:

- Lighting components and illuminated panels;
- Signage and wayfinding systems;
- Architectural and interior design elements;
- Office furniture and functional design objects;
- Exhibition stands and display systems.

Excellent Processability & Post-Processing

ReForm rPETG Frosted + 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 Frosted + UV

- **Uniform Light Diffusion** – Its translucent “Frosted” white finish delivers an excellent light diffusion with soft and even illumination.
- **UV-Resistant Formulation** – Suitable for long-term outdoor exposure.
- **High Impact Strength & Crack Resistance** – Durable and reliable for large-format 3D printing.
- **Good Chemical Resistance** – Resistant to cleaning agents and various chemicals, helping maintain surface quality.
- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PETG, ensuring consistent quality, reliability, and traceability throughout the production process.

Material properties	**Typical value**	**Test Method**
MVR (260°C, 2.16kg)	11-13 cm^3/10min	ISO 1133
Density	1,27 g/cm^3	ISO 1183-1
Mechanical properties		
Tensile modulus	2220 MPa	ISO 527
Flexural strength	70.6 MPa	ISO 178
Elongation at yield	5%	ISO 527
Elongation at break	37%	ISO 527
Charpy impact strength (23 °C unnotched)	No break	ISO 179
Charpy impact strength (23 °C notched)	Ca. 7,4 kJ/m2	ISO179
Thermal properties		
HDT A	64 °C	ISO 75
HDT B	71 °C	ISO 75
Vicat softening temperature	82 °C	ISO 306

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Processing ReForm rPETG Frosted + UV

Drying: 6-10hrs at 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: 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	

Storage and handling of ReForm rPETG Frosted + UV

ReForm rPETG Frosted + 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 Frosted + 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