

# TECHNICAL DATA SHEET

ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + UV

Date of issue: 16-01-2026 / Date of update: 16-01-2026



## ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + UV Pellets for LFAM

ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + UV is a high-performance, translucent white flame-retardant recycled PETG granulate, specifically engineered for Large-Format Additive Manufacturing (LFAM). Its frosted appearance delivers excellent light diffusion. This makes it an ideal material for lighting and signage applications where uniform illumination is essential.

Printed parts scatter light evenly, effectively eliminating harsh "hot spots" from light sources and creating a soft, homogeneous glow.

## Fire Safety & UV-Protection for Indoor and Outdoor Applications

ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + UV delivers exceptional light diffusion while the recycled material used in this formulation meets a B-s2, d0 fire behavior classification according to EN13501-1:2007+A1:2009 standards in its application.

Thanks to its combination of flame retardancy, 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 FR EN13501-1 (B-s2, d0) + 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 FR EN13501-1 (B-s2, d0) + UV

- **Flame-Retardant Performance** – Meets EN 13501-1 (B-s2, d0) fire classification standards, offering excellent fire resistance and low smoke emission for safe indoor use.
- **Uniform Light Diffusion** – Its translucent "Frosted" white finish delivers an excellent light diffusion.
- **UV-resistant Formulation** – Perfect for long-term outdoor use.
- **High Impact Strength & Crack Resistance** – Ensures durability and reliability even in demanding large-format 3D printing projects.
- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PETG, ensuring consistent quality, reliability, and traceability throughout the production process.
- **Good Chemical Resistance** - Good resistance to cleaning agents, various chemicals, and environmental factors, extending the printed part's lifetime and maintaining surface quality.

### Material properties

MVR (260°C, 2.16kg)

Density

### Typical value

11-13 cm<sup>3</sup>/10min

1,27 g/cm<sup>3</sup>

### Test Method

ISO 1133

ISO 1183-1

### Mechanical properties

Tensile modulus

Flexural strength

Elongation at yield

Elongation at break

Charpy impact strength (23 °C unnotched)

Charpy impact strength (23 °C notched)

2220 MPa

70.6 MPa

5%

37%

No break

Ca. 7,4 kJ/m<sup>2</sup>

ISO 527

ISO 178

ISO 527

ISO 527

ISO 179

ISO179

### Thermal properties

HDT A

HDT B

64 °C

71 °C

ISO 75

ISO 75



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Vicat softening temperature 82 °C ISO 306

## Flammability properties

Fire resistance B-s2, d0 EN13501-1 material assessment

## Processing ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + 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 FR EN13501-1 (B-s2, d0) + UV

ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) + 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 FR EN13501-1 (B-s2, d0) + 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.*

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