

TECHNICAL DATA SHEET

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

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

ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) is a high-performance, translucent white, flame-retardant recycled PETG granulate, specifically engineered for Large-Format Additive Manufacturing (LFAM). Its elegant frosted finish delivers excellent light diffusion, making it ideal for applications where uniform, soft illumination is essential.

3D printed parts distribute light evenly, eliminating harsh "hot spots" and visible light sources, resulting in a smooth, homogeneous glow that enhances both functional and architectural designs.

Fire-Safe, Light-Diffusing Material for Professional Applications

This advanced recycled PETG compound combines fire safety, durability, and visual performance in one material. ReForm rPETG Frosted FR EN13501-1 (B-s2, d0) 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. By that, ReForm rPETG Frosted FR EN13501-1 (B-s2, d0), can be a suitable granulate for LFAM projects for regulated environments and public spaces where fire performance is a key requirement.

Its combination of flame-retardant properties, mechanical strength, and light-diffusing aesthetics makes it ideal for a wide range of professional 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) 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)

- **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 with soft and even illumination.
- **High Impact Strength & Crack Resistance** – Designed for durability in large-format 3D printing.
- **Good Chemical Resistance** – Resistant to cleaning agents and various chemicals.
- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PETG, ensuring consistent quality, reliability, and traceability throughout the production process.

Material properties

MVR (260°C, 2.16kg)

Density

Typical value

11-13 cm³/10min

1,27 g/cm³

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/m²

ISO 527

ISO 178

ISO 527

ISO 527

ISO 179

ISO179

Thermal properties

HDT A

64 °C

ISO 75



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HDT B	71 °C	ISO 75
Vicat softening temperature	82 °C	ISO 306

Flammability properties

Fire resistance	B-s2, d0	EN13501-1 material assessment
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Processing ReForm rPETG Frosted FR EN13501-1 (B-s2, d0)

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)

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