

TECHNICAL DATA SHEET

ReForm rPLA Matt UV

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ReForm rPLA Matt UV for LFAM – Mineral-Filled PLA with Natural Matte Finish and High Material Density

ReForm rPLA Matt UV for LFAM is a high-performance, mineral-filled PLA compound specifically engineered for Large Format Additive Manufacturing (LFAM) applications. This sustainable material delivers a aesthetically pleasing, naturally matte surface finish while maintaining excellent mechanical strength and process stability.

Enhanced Material Density & Premium Matte Surface Finish

ReForm rPLA Matt UV is approximately 15% heavier than standard PLA, due to its high mineral content. This increased material density contributes to a more substantial, solid feel in printed parts.

The combination of higher weight and a natural matte finish results in printed objects that eliminate the typical “plastic look” often associated with conventional PLA. Instead, parts achieve a more professional, stylish, and high-end appearance. This makes ReForm rPLA Matt UV ideal for architectural components, design objects, and functional end-use applications where visual quality matters.

UV-Stabilized for Outdoor Durability and UV-Exposed Parts

Our ReForm rPLA Matt UV compound is enhanced with UV stabilizers, which ensure improved resistance to sunlight exposure. Printed parts retain their visual and mechanical integrity over time. This makes ReForm rPLA Matt UV a suitable LFAM material for both indoor and outdoor LFAM applications.

Excellent Mechanical Performance & Optimized Flow Behavior for LFAM

Our mineral-filled formulation enhances stiffness and dimensional stability while maintaining reliable strength. The mineral reinforcement enhances rigidity while maintaining excellent processability. This makes the material well-suited for large-format industrial prints requiring durability and precision.

Its excellent melt flow and consistent extrusion performance result in a user-friendly mineral-filled PLA compound with optimized flow behavior. This ensures smooth printing, reduced warping, and perfect layer adhesion for all your LFAM projects.

ReForm rPLA Matt UV for LFAM is the ideal solution for manufacturers seeking a sustainable, mineral-enhanced PLA material that delivers both superior aesthetics and reliable large-format additive manufacturing (LFAM) performance.

Key Features of ReForm rPLA Matt UV Pellets for LFAM

- **High mineral-filled PLA** – Eliminates the plastic look & feel by producing more dense 3D printed parts with a refined matte surface finish.
- **UV-stabilized** – Offers versatility for both indoor & outdoor applications.
- **Excellent processability** – Plug and play LFAM material with optimized flow behavior and extrusion performance.
- **High dimensional accuracy** – The high mineral content minimizes warpage and enhances the stiffness and dimensional stability of LFAM printed parts.
- **European-Made Quality Compound** – Manufactured in Europe using high-grade recycled PLA and mineral fillers, ensuring consistent quality, reliability, and traceability throughout the production process.

Suitable Applications of ReForm rPLA Matt UV Pellets for LFAM

- Architectural and decorative elements.
- Indoor and outdoor furniture.
- Vases, planters, and landscape elements.
- Indoor and outdoor installations.

Material properties

MFR (190°C, 2.16kg)

Density (23°C)

Moisture content

Typical value

2.6 g/10min

1,42 g/cm³

<0,03%

Test Method

ISO 1133

ISO 1183

ISO 787/2



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Mechanical properties	Typical value	Test Method
Tensile stress at yield	32 MPa	ISO 527
Tensile elongation at yield	3.7%	ISO 527
Tensile modulus	1850 MPa	ISO 527
Flexural stress	52 MPa	ISO 178
Flexural modulus	1870 MPa	ISO 178
Charpy Notched Impact Strength	5 kJ/m ²	ISO 179
Shore hardness	72D	ISO 868

Thermal properties	Typical value	Test Method
HDT	~60 °C	
Melt temperature	160 - 205 °C	-

Processing Recommendations for ReForm rPLA Matt UV Pellets for LFAM

Pre-Drying: 4-6hrs at ~65-70 °C (<100ppm)

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

Zone 1: 180°C ±10 °C

Zone 2: 190 °C ±10 °C

Zone 3: 200°C ±10 °C

Max temp: 210 °C

Die temp: 190°C ±20 °C

Typical extrusion settings may require optimization based on hardware used.

Storage and Handling Guidelines for ReForm rPLA Matt UV Pellets for LFAM

ReForm rPLA Matt UV 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 rPLA Matt UV will maintain its reliability and print performance over time.

Product export information

HS code: 39079980

Description: PLA resin compound 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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