TECHNICAL DATA SHEET

EasyFil ePLA
Date of issue: 01-08-2025 / **Date of update:** 01-08-2025

EasyFil ePLA – High-Performance PLA Pellets for Large-Format Additive Manufacturing

EasyFil ePLA is a premium-grade virgin PLA pellet specifically engineered for Large-Format Additive Manufacturing (LFAM). This high-performance PLA material delivers exceptional printability, precise detailing, and excellent bed adhesion, with minimal warping.

EasyFil ePLA pellets for LFAM reflect a strong commitment to sustainable manufacturing as they are made from renewable, bio-based raw materials. These pellets are 100% recyclable and industrially compostable, offering an eco-conscious solution for your large format 3D printing needs.

Additionally, EasyFil ePLA pellets for LFAM are food contact compliant, making them safe and versatile for use across a wide range of industries and applications. Choose EasyFil ePLA pellets for sustainable, precision-driven, and certified 3D printing performance for your LFAM projects.

Key Features of EasyFil ePLA Pellets for LFAM

- **Food Contact Compliant** – Made with certified raw materials for safe, reliable use.
- **High Precision Printing** – Enables accurate, stable, and detailed 3D-printed parts.
- **Optimized for LFAM** – Consistent performance in large-format 3D printing environments.
- **100% Recyclable –** Supports circular production and sustainable workflows.
- **Industrially Compostable** – Meets strict environmental standards for responsible end-of-life disposal.

Suitable Applications of EasyFil ePLA Pellets for LFAM

- **Prototyping** – Perfect for the creation of full-scale prototypes and concept models, enabling faster design iterations for large products.
- **Architectural Elements** – Ideal for creating custom decorative or functional architectural components, offering flexibility and unique designs.
- **Customizable Parts** – Supports tailored designs for unique and personalized applications.
- **Cosplay and Props** –Ideal for creating large props, armor, and decorative items for events and entertainment.
- **Cost-Efficient Part Production** – Enables affordable manufacturing without compromising quality.

Material properties	**Typical value**	**Test Method**
MFI (190°C, 2.16kg)	4 g/10min	ISO 1133-A
Density	1,24 g/cm^3	DSC
Mechanical properties		
Tensile strength	46 MPa	ISO-527
Tensile modulus	3530 MPa	ISO-527
Elongation at break	4,9%	ISO-527
Impact strength (Charpy, notched)	5 kJ/m²	ISO-179-1eA
Thermal properties		
HDT-B	55 °C	ISO 75
Glass transition temperature	61 °C	DSC
Melting Point	155 °C	DSC

Processing Recommendations for EasyFil ePLA Pellets for LFAM

Pre-Drying: 4-6hrs at 85 °C (<100ppm)

For optimal 3D printing results it is recommended to pre-dry EasyFil ePLA pellets to a moisture below 100 ppm.

Zone 1: 185°C ±5 °C
Zone 2: 195°C ±5 °C
Zone 3: 205°C ±5 °C
Max temp: 210 °C
Die temp: 200°C ±10 °C

Typical extrusion settings may require optimization based on hardware used.

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Storage and Handling Guidelines for EasyFil ePLA Pellets for LFAM

EasyFil ePLA 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, EasyFil ePLA will maintain its reliability and print performance over time.

Disclaimer

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