TECHNICAL DATA SHEET

Bulk PLA
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Premium EU-Made PLA Filament for High-Volume and Cost-Efficient 3D Printing

Bulk PLA filament is a premium-grade 3D printing filament manufactured in the European Union. This PLA filament is developed for cost-efficient and high-volume production with consistent quality and durability at scale. Bulk PLA filament is the ideal choice for manufacturers, production facilities, prototyping labs, and makers who require reliable results without compromising on affordability.

Each 1kg spool is made from certified second-life polypropylene (PP), made with post-consumer recycled materials. The packaging is crafted from recycled, FSC-certified cardboard, offering an eco-conscious solution that supports a more sustainable production cycle.

To maximize usability, the 1kg spools are fully AMS compatible, offering smooth integration across multiple 3D printing systems.

Important key features

- **EU-Made Premium Quality Filament –** Delivers reliable, consistent 3D printing results for industrial, professional, and personal use.
- **Cost-Efficient Production** – Engineered for affordable and high-volume 3D printing without compromising performance.
- **AMS Compatible** – 1Kg spools are compatible with all AMS systems, ensuring maximum usability and flexibility.
- **Eco-conscious Packaging** – Filament spooled on recycled certified second-life PP spools with FSC-certified recycled cardboard boxes.
- **Versatile Applications** – Perfect for both large-scale additive manufacturing and small-batch prototyping.

Suitable applications

- **Small & Medium-Scale Manufacturing** – High-quality PLA for industrial and commercial production.
- **Prototyping & Product Development** – 3D print accurate models and functional prototypes with high quality PLA filament.
- **Education & Research** – Safe, reliable, and easy-to-use PLA filament for classrooms and laboratories.
- **Design, Art & Hobbyist Projects** – Ideal for visual models, sculptures, and hobbyist 3D printing.
- **Manufacturing Aids & Jigs** – Custom tools and fixtures to support production processes.

Recommended print settings

Nozzle temp: ± 200 - 225°C	**Heat bed:** ± 50 - 60°C	**Fan speed:** ± 50 - 100%
Print speed: ± 25 - 200 mm/s	**Nozzle:** ≥ 0.15mm	**Buildplate adhesion:** EasyFix Nr. I
Drying: Not necessary	**Drybox:** Not necessary	**Enclosure:** Not necessary
Experience level: Beginner		

Material properties	**Typical value**	**Test Method**
Specific Gravity	1.24 g/cm3	ÀSTM D 792
Mechanical properties		
Tensile strength	47 MPa	ASTM D882
Tensile elongation at break	≤ 5,5%	ASTM D882
Tensile modulus	3400 MPa	ASTM D882
Thermal properties		
HDT	58°C	ASTM D648

Buildplate adhesion

For optimal buildplate adhesion we recommend to use our EasyFix Adhesive – Nr. I.

Storage and handling

Filament should be stored at room temperature in a dry and dark place with humidity below 15%. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months. To obtain the best parameters of the printed object, it is recommended to dry the material prior to usage and to 3D print it directly from a dry box.

Product export information

HS Code	Description	Origin
39169090	Monofilament for 3D printing	European Union

Packaging & Logistics Information

Material	Spool weight	Spools per master box	Spools per EURO pallet
Bulk PLA filament	1,000 g (1 kg)	10	400
Bulk PLA filament	2,300 g (2.3 kg)	5	120
Bulk PLA filament	4,500 g (4.5 kg)	1	90
Bulk PLA filament	8,000 g (8 kg)	1	60

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