



Version: 16 July 2025

Sustainability Profile: PLA Matte

Product Overview

Material name: PLA Matte (Polylactic Acid with matte additive)

Origin: Virgin PLA derived from plant-based renewable sources (typically corn starch or sugarcane), modified with matte finish additives to reduce gloss and improve surface aesthetics

Manufacturing location: European Union (using audited partner production facilities)

Environmental Credentials

Recycled content: 0% (percentage by weight; based on supplier material declarations)

Base polymer source: Virgin bio-based PLA from renewable agricultural feedstocks

Additives: Surface modifiers to reduce shine and increase opacity – non-biodegradable

Carbon footprint: Lower than fossil-based polymers due to the bio-based nature of PLA; however, no recycled content means environmental impact is higher than recycled PLA. No full LCA currently available.

Packaging: 100% recyclable cardboard spool. Check local guidelines.

Shipping: Manufactured in Europe, warehoused and distributed from the UK. All non-palletised shipments use DPD's carbon-neutral delivery service, reducing transportation emissions for UK and EU customers.

Circularity & End-of-Life

Biodegradability: The PLA base is technically biodegradable under industrial composting conditions (typically requiring $>55^{\circ}\text{C}$ and specialised treatment). However, matte additives may reduce composting performance, and this product is not home compostable

Recycling: Accepted in Filamentive's PLA recycling scheme. Not suitable for household recycling in the UK. Check locally.

Disposal/reuse guidance. Reuse of prints is encouraged where possible. At end-of-life, dispose of via non-recyclable waste channels, unless industrial composting or recovery infrastructure is available locally.

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Certifications & Standards

ISO: Production partners operate under certified quality and environmental management systems (EMS) such as ISO 9001 and ISO 14001.

RoHS & REACH compliant: Free from restricted and hazardous substances, in line with UK and EU regulations

Internal testing: Every batch is tested for extrusion consistency and dimensional tolerance. Material is verified on in-house 3D printers to ensure reliable print performance and minimal variation across colours and batches.

Supporting Sustainability at Filamentive

PLA Matte offers a professional surface finish for visual models and functional parts, while using a **bio-based polymer** as its foundation. Although it contains **no recycled content**, Filamentive is developing next-generation matte materials that incorporate recycled PLA to support increased circularity.

For technical specifications, SDS, or sustainability-related queries, please contact: info@filamentive.com

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