Sustainability Profile: PETg

Product Overview

Material name: PETg (Polyethylene Terephthalate Glycol-modified)

Origin: Thermoplastic polymer derived from PET (commonly used in plastic bottles), with glycol added to improve toughness and printability

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

Environmental Credentials

Recycled content: 100% (percentage by weight; based on supplier material declarations)

Recycled Material: Post-industrial recycled (PIR) material recovered from controlled manufacturing waste streams

Carbon footprint: Supplier data indicates a significantly reduced carbon footprint compared to virgin PLA, due to recycled content use and localised production. Full life cycle assessment (LCA) in development.

Packaging: 100% recyclable cardboard spool; spool-less refill also available. 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: PETg is not biodegradable in home or industrial composting environments. Its environmental value lies in durability and recyclability.

Recycling: PETg is not currently accepted through Filamentive's recycling scheme. However, it can be mechanically recycled by specialist processors, subject to local facility capabilities.

Disposal/reuse guidance: Reuse is encouraged where possible. PETg is not widely accepted in UK kerbside recycling schemes – please check with your local authority or recycling provider for appropriate disposal or recovery options.

Certifications & Standards

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

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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

Filamentive offers recycled alternatives to virgin 3D printing materials – helping businesses reduce their environmental impact while maintaining print performance. Our PETg supports your organisation's **circularity and carbon reduction goals**, without compromising on strength or reliability.

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

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