



Version: 11 Feb 2026

Sustainability Profile: rPA12 Recycled Nylon

Product Overview

Material name: rPA12 Recycled Nylon (Polyamide 12)

Origin: Feedstock is collected from industrial users of PA12 powder (e.g. service bureaus and manufacturers), where unused build powder is routinely discarded after a limited number of cycles. This material is filtered, conditioned and extruded into filament, creating a higher-value second life for what would otherwise be a waste stream.

Manufacturing location: Netherlands (using audited partner production facilities)

Environmental Credentials

Recycled content: 100% PA12 Nylon by weight (base polymer)

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: rPA12 is not biodegradable and will not break down in home or industrial composting.

Recycling: Not compatible with Filamentive's PLA recycling scheme and not accepted in UK kerbside recycling collections. However, as a polyamide, rPA12 offcuts and failed prints may be suitable for specialist nylon / engineering polymer recyclers where available.

Disposal/reuse guidance:

- Reuse is strongly encouraged due to the material's durability and resistance to fatigue and wear.
- Where specialist recycling is not available, rPA12 should be disposed of via general non-recyclable waste or through approved industrial waste contractors.
- Customers using significant volumes of rPA12 may wish to explore local or sector-specific polymer recovery schemes for polyamide materials.

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Certifications & Standards

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

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

rPA12 Recycled Nylon is part of Filamentive's strategy to **turn industrial waste streams into high-value 3D printing materials**. By reclaiming PA12 powder waste from MJF and similar technologies, rPA12:

- Reduces demand for virgin PA12
- Diverts technical plastic waste from landfill or incineration
- Enables engineers and manufacturers to specify a **recycled engineering filament** without compromising on performance

It is particularly suited to organisations seeking to improve the environmental profile of functional nylon applications while maintaining robust mechanical and thermal properties.

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

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