

TECHNICAL DATA SHEET

ReForm rTPU 95A

Date of issue: 29-09-2025 / Date of update: 29-09-2025



ReForm rTPU 95A Filament – Medium-Flexible & Maximum Sustainable TPU Filament for 3D Printing

ReForm rTPU 95A is our stiffest and medium-flexible rTPU filament in our ReForm rTPU product line. This recycled TPU filament is a perfect balance between rubbery and rigid plastics. ReForm rTPU 95A is perfect for applications where you want tough, durable, abrasion-resistant parts that can still flex a little but won't collapse under load.

ReForm rTPU 95A is ideal for producing functional and load-bearing parts that require resistance to wear, tear, abrasion and friction. Your 3D printed parts will perform reliable under the most demanding conditions and continuous mechanical stress.

The Sustainable Choice in TPU 3D Printing Filaments

ReForm rTPU 95A is manufactured using almost 100% post-industrial recycled TPU, sourced responsibly from European chemical industries. By reclaiming overproduction, off-grade materials, and production waste, and enhancing them with tailored additives, we deliver a high-performance recycled TPU filament optimized for 3D printing applications.

This makes ReForm rTPU 95A the eco-friendly alternative to virgin TPU filaments—delivering the same premium quality while reducing environmental impact.

Important key features of ReForm rTPU 95A

- Made with nearly 100% recycled TPU from certified and traceable European sources.
- Medium-flexible and moderate elasticity with a shore hardness of 95A.
- Good flexibility with dimensional stability - can flex and compress under load but springs back reliably.
- High abrasion resistance - very resistant to wear, scuffing, and repeated friction.
- Strong Mechanical Properties - high tear strength and impact resistance
- Printed parts can withstand repeated mechanical stress without cracking.

Suitable applications for ReForm rTPU 95A

- **Gears and drive belts** – parts can withstand wear while maintaining slight flexibility.
- **Housings, connectors, cable grommets** – printed parts resist mechanical stress but provide some give.
- **Jigs and fixtures** – parts that need to bend slightly but remain dimensionally stable.
- **Automotive applications** – Dust covers, bellows, flexible mounts, cable management components.
- **Sports & lifestyle equipment** – wheels, grips, protective gear that need abrasion resistance.

Recommended print settings for ReForm rTPU 95A

Nozzle temp: ± 220 - 250°C

Heat bed: ± 60 - 80°C

Fan speed: ± 30 - 100%

Print speed: ± 20 - 60 mm/s

Nozzle: ≥ 0.15mm

Buildplate adhesion: EasyFix Nr. 1

Drying: 24 hours @ ~50-70 °C

Drybox: Yes

Enclosure: Not necessary

Experience level: Intermediate

Material properties

Specific Gravity (23°C)

Typical value

1,21 g/cm³

Test Method

ISO 1183-1

Mechanical properties

Tensile strength

32 MPa

ASTM D638

Tear strength

77 N/mm

ISO 34-1

Elongation at break

355%

DIN 53504-S2

Shore A hardness

95A

ISO 7619-1

Thermal properties

Heat resistance

74 °C

DSC

Melting Point

165 °C

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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
ReForm rTPU 95A	1,000 g (1 kg)	10	400
ReForm rTPU 95A	2,300 g (2.3 kg)	5	120
ReForm rTPU 95A	4,500 g (4.5 kg)	1	90
ReForm rTPU 95A	8,000 g (8 kg)	1	60

Disclaimer

The product and technical data provided in this datasheet are correct to the best of FormFutura BV's knowledge and are intended solely for reference and comparison purposes. Actual values may vary depending on printing conditions, model complexity, environmental factors, and other variables. Typical values are indicative only and do not constitute binding specifications.

All other information supplied, including that contained herein, is believed to be accurate but is provided on the express condition that the customer is responsible for making its own assessment to determine the product's suitability for a particular purpose.

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