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. I
Drying: 24 hours @ ~50-70 °C	**Drybox:** Yes	**Enclosure:** Not necessary
Experience level: Intermediate		

Material properties	**Typical value**	**Test Method**
Specific Gravity (23°C)	1,21 g/cm^3	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	-

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