



# Ultrafuse® TPU 95A

Flexible Filament based on BASF Elastollan®

Ultrafuse® TPU 95A has been developed specifically to enable fast and easy printing with a flexible filament for Fused Filament Fabrication. By building on the legacy of BASF's decades of experience in flexible materials, this material is based on the established thermoplastic polyurethane Elastollan®, standing for maximum reliability, consistent product quality and cost efficiency. With its outstanding abrasion resistance, Ultrafuse® TPU 95A presents an excellent choice for wear and tear applications. Parts printed with this material set themselves apart by high elongation at break, great layer adhesion and a good resistance to oils as well as industrially used chemicals.

## Benefits at a Glance

- Perfect for fast printing
- High abrasion resistance
- Easy to handle
- Good resistance to oils and common industrially used chemicals
- Printable on direct drive and bowden style printers

## Example Applications

- Functional flexible parts
- Wear and tear application

## Material Properties

Shore A Hardness	92
Abrasion Resistance	64 mm <sup>3</sup>
Compression set at 23°C, 72 h:	38 %
Stress at Break:	44.2 MPa (XY), 12.2 MPa (ZX)
Elongation at Break:	661 % (XY), 192 % (ZX)
Tear Strength:	90 kN/m (XY), 8 kN/m (XZ), 14 kN/m (ZX)

## Printing Guidelines

Nozzle Temperature	210–230 °C
Bed Temperature	40 °C
Nozzle Diameter	≥ 0.4 mm
Bed Modification	Glass
Print Speed	15–40 mm / sec

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