



# Ultrafuse® TPS 90A

Ultrafuse® TPS 90A has been developed especially for Fused Filament Fabrication and offers an outstanding non-slip soft touch. This unique flexible filament is characterized by its soft haptics, low moisture uptake as well as good layer adhesion. The special smooth surface makes Ultrafuse® TPS 90A the perfect choice for handles of appliances, small series seals and gaskets.

## Benefits at a Glance

- Soft touch
- Non-slip properties
- Reduced moisture uptake
- Excellent layer adhesion
- Very good low-temperature flexibility

## Example Applications

- Functional flexible parts
- Handles of appliances
- Seals and gaskets

## Material Properties

<b>Shore A Hardness</b>	89
<b>Abrasion Resistance</b>	111 mm <sup>3</sup>
<b>Compression set at 23°C, 72 h:</b>	75 %
<b>Stress at Break:</b>	7 MPa (XY), 2 MPa (ZX)
<b>Elongation at Break:</b>	280 % (XY), 9 % (ZX)
<b>Tear Strength:</b>	10 kN/m (XY), 5 kN/m (XZ), 4 kN/m (ZX)

## Printing Guidelines

<b>Nozzle Temperature</b>	260–280 °C
<b>Bed Temperature</b>	70–90 °C
<b>Nozzle Diameter</b>	≥ 0.4 mm
<b>Bed Modification</b>	PEI, PI or glue
<b>Print Speed</b>	10-30 mm/sec

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