

FLEXIBLE THERMOPLASTIC POLYURETHANE

TPU 95A Filament

1.75 mm · 1 kg spool · ± 0.05 mm tolerance

Shore 95A TPU that is flexible yet firm enough to print reliably, for grips, seals, bumpers and protective parts.

✓ Shore hardness 95A

✓ Elongation 800–1000 %

✓ Abrasion and tear resistant

✓ No break on impact

Recommended Print Settings

Nozzle temperature	200–240 °C 230 °C recommended
Bed temperature	20–60 °C 40 °C recommended
Print speed	30–150 mm/s 60 mm/s recommended
Support material	PVA

i A direct drive extruder gives the most reliable feeding. Reduce retraction to avoid jams.

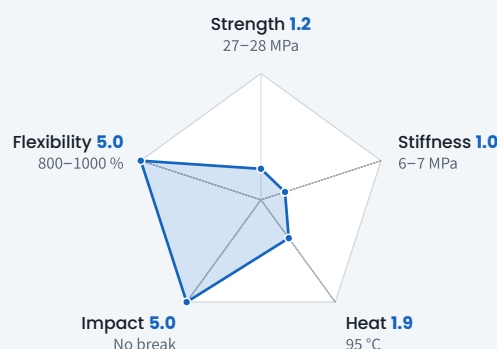
Filament Specifications

Material	Thermoplastic polyurethane (TPU)
Diameter	1.75 mm
Diameter tolerance	± 0.05 mm
Net filament weight	1 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	1.15 kg
Spool outer diameter	200 mm
Hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 220 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Storage & Handling

Drying
70 °C for a minimum of 5 hours in a filament dryer or food dehydrator.

Storage
Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Shore hardness	ISO 7619-1	95A
Tensile strength	ISO 527	27–28 MPa
Elongation at break	ISO 527	800–1000 %
Tensile modulus	ISO 527	6–7 MPa
Flexural strength	ISO 178	7–9 MPa
Impact strength	ISO 180	No break

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.2–1.25 g/cm ³
Melt flow rate (190 °C, 2.16 kg)	ISO 1133	6–10 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<0.5 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	95 °C
Continuous use temperature	IEC 60216	90 °C

Available Colours 14



Black



White



Red



Orange



Yellow



Blue



Green



Pink



Natural



Grey



Rose



Purple



Silver



Brown

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.