3DTRCEK

TECHNICAL DATA SHEET

TPU 90A

TPU filament offers flexibility, durability, and resistance to wear to your prints.

Why 3DTrcek TPU 90A filament?

- Elastic filament: Resistant to impact, deformation, and wear
- Structural resistance: UV rays and many chemical solutions
- High precision: Constant diameter 1.75mm +/- 0.03mm
- Adaptable flexibility: Dependent on infill density

Storage:

Store 3DTrček TPU filament in a dry, dark place in an airtight bag with desiccant at temperatures between 0 °C and 40 °C. TPU quickly absorbs moisture, so we recommend drying it in a filament dryer or oven at 50°C for 6-12 hours before use.

Compatibility:

Due to bending of the filament in the PTFE tube, it is recommended to use a printer with a direct extruder for the best results. Additionally, TPU filaments are NOT compatible with multi material systems. With over 10 years of experience in developing 3D filaments, 3DTrček produces only the best TPU filaments, ensuring exceptional results on all popular FDM printers, such as Bambu Lab, Creality, Prusa, Anycubic, Elegoo, etc.

MATERIAL PROPERTIES		
Density		1,21 g/cm³
Glass transition temperature	DSC	-35°C
MECHANICAL PROPERTIES		
Tensile strength	ASTM D638	45 MPa
Tear strenght	ISO 34	125 kN/m
Elongation at break	ISO 527-1	540 %
Izod notched impact, -20	ASTM D256	No break
Vicat softening temperature	ISO 306	95°C
Hardness	89 Shore A	ISO 868

PRINTER RECOMENDATION

	Recommended	Not recommended
nozzle	Any size / material	
Build plate	Engineering plate, High temperature plate, Textured PEI plate	Cool plate
Heated chamber	Not required	
Extruder	Direct extruder	Bowden extruder