Flexible 98A TDS

Thermoplastic Polyuretane (TPU) for FDM Printers

Product Description

AzureFilm flexible filament consistency and printability outperforms other polyurethane materials. With its core formula and ultra resistant materials used as base mixture, allows printing at a high speed while maintaining firm and smooth outprints. Filament can be used for most types of 3D printers, with emphasys on direct driven extruders.

Properties

Property of 3D printed specimens	Test method	Value
Material	Thermoplastic Polyuretane	Color White
Density	DIN 53516	1,15 – 1,17 g/cm3
Tear strenght	DIN 53515	120 N/MM
Tensile modulus 300%	DIN 53515	15 MPa
Tensile strength	DIN 53504	45 MPa
Abrasion resistance	DIN 53516	30 mm3
Elongation at break	DIN 53504	350%
Hardness	DIN 53505	98 Shore A

Test specimens print settings

3D printer: AzureFilm
Slicer: Cura
Nozzle: 0,4 mm

Infill: 100 %
Retraction: 0
Layer height: 0,2 mm

Nozzle temperature: 230 °C
Bed temperature: 60 °C
Print speed: 30 mm/s

Printing Recommendations

Nozzle temperature: 200 – 240°C
Heated bed: recommended 0 – 80 °C
Print speed: 10 – 30 mm/s
Build platform: Blue tape, Kapton tape. Recommended: Glass bed + Dimafix spray

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