

alzament

Alzament Filament

Technical Data Sheet V1.0

Tpu 95A

- **Basic Info**

Alzament Tpu 95A is Flexible 3D printing material with 95 Shore A hardness. With 3D printing, different elastic effects can be achieved through model design and increasing or decreasing the infill volume.

- **Specifications**

Subjects	Data
Diameter	1.75 mm
Net Filament Weight	1 kg
Filament Length	330m
Tolerance	±0.03mm

- **Recommended Printing Settings**

Subjects	Data
Nozzle Temperature	220– 240 (°C)
Bed Type	Cool Plate, Engineering Plate, High Temperature Plate or Textured PEI Plate
Build surface material	BuildTak® , Glass, Blue Tape
Build Surface Treatment	Glue
Base Plate Temperature	60 - 80 (°C)
Cooling fan	Turn ON
Printing speed	40-80 (mm/s)
Retraction speed	20 - 40 mm/s
Environmental temperature	Room temperature
Max Overhang Angle	55 °

• Properties

Alzament has tested the differing aspects in the performance of TPU 95A material, including physical and chemical properties. Typical values are listed as followed:

Physical Properties		
Subjects	Testing Methods	Data
Density	GB/T 1033	1.20-1.24 g/cm ³
Melt Index	210°C, 1.2kg	3-6g/10min
Flame retardancy	N/A	N/A
Light transmission	N/A	N/A

Mechanical Properties		
Subjects	Testing Methods	Data
Young's modulus (X-Y)	ISO 37, GB/T 528	29 ± 2.8 MPa
100% modulus (X-Y)	ISO 37, GB/T 528	9.4 ± 0.3 Mpa
Elongation at break (X-Y)	ISO 37, GB/T 528	330.1 ± 14%
Shore hardness	ISO 7619-1, GB/T 531.1	95A

Other Physical and Chemical Properties	
Subjects	Data
Odor	Odorless
Composition	Thermoplastic polyurethane
Skin Hazards	Not hazard
Chemical Stability	Stable under normal storage and handling conditions
Solubility	Insoluble in water
Resistance to Acid	Not resistant
Resistance to Alkali	Not resistant
Resistance to Organic Solvent	Not resistant to some organic solvents
Resistance to Oil and Grease	Resistant to most kinds of oil and grease
Flammability	Flammable
Combustion Products	Water, carbon oxides, etc
Odor of Combustion Products	Pungent odor

• Disclaimer

The performance values are tested by standard samples at Alzament, and the values are for design reference and comparison only. Actual 3D printing model performance is related to many other factors, including printers, printing conditions, printing models, printing parameters, etc.

In the process of using Alzament 3D printing filaments, users are responsible for the legality, safety, and performance indicators of printing. Alzament is not responsible for the use of materials and scenarios and is not responsible for any damage that occurs in the process of using our filaments.

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