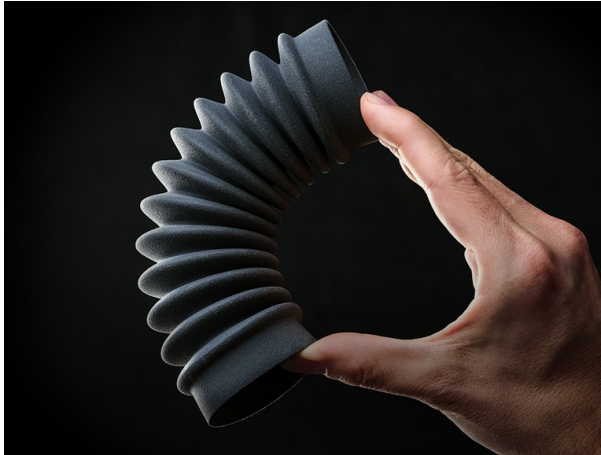


Ultrasint TPU01

FLEXIBLE PLASTICS FOR HP® MULTI JET FUSION 3D PRINTING



MATERIAL NAME

Ultrasint TPU01

COLOR

Black

PROCESS

HP® Multi Jet Fusion

PRODUCT DESCRIPTION

HP TPU01 is a TPU powder material used in the MJF process. The printed parts are flexible, wear-resistant, shock-absorbing, and have good hydrolysis and UV resistance. It is suitable for cushioning, sealing, protective gear, footwear and soft parts of fixtures.

TYPICAL APPLICATIONS

- Functional prototype testing
- End-use plastic parts
- Assembly testing
- Appearance display

PRODUCT SAFETY

Flexible printed parts should be handled according to normal workshop safety practices. Avoid prolonged skin contact with uncured resin or residues, and review material-specific handling and operating requirements before use.

PRODUCT DELIVERY & WAREHOUSING

- STORAGE**
Store flexible printed parts in a cool, dry, and dark environment. Keep away from solvents, direct sunlight, ozone sources, and sustained compression.
- TRANSPORTATION**
Ship with cushioning to avoid compression set, tearing, and surface abrasion. Protect from heat, UV exposure, and chemical contamination during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.1 g/cm3
Water Absorption (%)	ISO 62	0.2%
Hardness	ISO 7619-1	Shore A 88
Tensile strength (MPa)	ISO 37	X: 9 Z: 7 MPa
Tensile modulus (MPa)	ISO 37	85 MPa
Elongation at break	ISO 37	X: 280 Z: 150%
Flexural modulus (MPa)	ISO 178	75 MPa
Impact strength notched	ISO 179	46 KJ/m²; ISO 179 (Charpy)

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>