



Ultrasint® TPU 88A

Thermoplastic Polyurethane Powder for Laser Sintering

Ultrasint[®] TPU 88A is a multi-purpose material for application in Laser Sintering. Parts produced with this material offer either high shock absorption or excellent energy return as well as good resistance to fatigue. Ultrasint[®] TPU 88A shows a balanced property profile with good flexibility and allows complete freedom of design, high level of detail and surface quality.

D • BASF

We create chemistry

It combines high ease of use on any PBF machine and high process stability, offering 80 percent reusability ratio. Parts printed with Ultrasint[®] TPU 88A have a stable white colour and allow easy finishing through smoothing, dying and coating. To top it off, the material shows good UV and hydrolysis resistance. Suitable for a wide range of applications.

Benefits at a Glance

- High process stability and easy-to-print on any PBF equipment
- High elasticity, rebound and resistance to fatigue
- Excellent surface quality and level of detail
- Easy finishing incl. smoothing, color dying, Ultracur3D[®] coating

- **Fields of Application**
- Tubes and pipes for industrial use
- Footwear
 Sports protection equipment
- Transportation industry
- Automotive interior
- Jigs & fixtures

Main Properties

Material Properties	
Hardness Shore A	88-90
Tensile strength (MPa)	8
Young's Modulus (MPa)	75
Elongation at Break (%)	270
Charpy Impact notched	no break
Rebound resilience (%)	63

Application Example: Industrial tubes and pipes

- Water-tight down to 0.6mm wall thickness
- High burst pressure, e.g. 7.4 bar at 3mm wall thickness
- Good resistance to water and various chemicals
- Readily implemented material model allows for further part optimization via BASF Ultrasim[®] simulation and design services

Distributed by: www.sls3d.de

+49 511 999 797 50