

# TPU-70A

## Thermoplastic urethane powder for Laser Sintering



The TPU-70A is elastomeric material characterized by a high elongation at break. This particularly suitable for prototypes and final parts for elastic structures, hoses, grips, bellows, bumpers, gaskets and seals, tubes, toys and modeling for Footwear, Automotive, Aerospace and Luxury industry.

Due to its very good powder properties and processability, the TPU is suitable for the creation of flexible parts with a good surface quality and a long life.

The TPU-70A can be processed with any ProMaker Pseries printers.



### KEY FEATURES & BENEFITS

- High elongation break up to 300
- Good chemical resistance
- Excellent shock absorption or rebound capabilities



### TYPICAL APPLICATIONS

- Flexible parts
- Sealings (windows, automotive...)
- Automation (grippers, tubes)
- Flexible pipes
- Orthopedic components

### MATERIAL PROPERTIES

	TEST METHOD	VALUE
Base material		Polyurethane
Appearance		White
Bulk density [g/cm <sup>3</sup> ]	Prodways method	1.2
Sintered part density [g/cm <sup>3</sup> ]	ISO 1183	>1.10
Average particle size (µm)	Laser diffraction	60 - 65
Melting point [°C]	ISO 11357	105 - 125

### MECHANICAL PROPERTIES\*

	TEST METHOD	VALUE
Tensile strength [MPa]	DIN 53504	6 - 12
Young modulus [MPa]	DIN 53504	40 - 65
Tensile elongation at break [%]	DIN 53504	>300

\* Performance characteristics may change according to product application, operating conditions or level of refresh.