

## SELECTIVE LASER SINTERING

# TPU-70A

## Current Supplier's Material: TPU-70A



### Product Description

This thermoplastic polyurethane (TPU) combines rubber-like elasticity and elongation with good abrasion and impact resistance. It can be leveraged to produce both prototypes and functional parts.

### Applications

The material's rubber-like quality is ideal for seals, gaskets, grips, hoses, or any other application where excellent resistance under dynamic loading is required.



### Key Product Benefits

- ▶ Flexibility
- ▶ Tear and abrasion resistance
- ▶ Durability

### Tolerances

For well-designed parts, tolerances of  $\pm 0.050$  in. can typically be achieved. Note that tolerances may change depending on part geometry.

### Properties

Property	Test Method	Value
Color	-	White
E-module (x-y plane)	ASTM D412, test speed 500mm/min	40.5 MPa
E-module (z plane)	ASTM D412, test speed 500mm/min	33 MPa
Tensile strength (x-y plane)	ASTM D412, test speed 500mm/min	6.5 MPa
Tensile strength (z plane)	ASTM D412, test speed 500mm/min	4.1 MPa
Elongation at break (x-y plane)	ASTM D412, test speed 500mm/min	355%
Elongation at break (z plane)	ASTM D412, test speed 500mm/min	250%