

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

PROPERTIES

PROPERTY	TEST METHOD	VALUE
Color	-	White
E-Module (x-y plane)	ASTM D638, test speed 10mm/min	50 ± 15 MPa
E-Module (z plane)		50 ± 15 MPa
Tensile strength (x-y plane)		4 ± 1.5 MPa
Tensile strength (z plane)		2 ± 1 MPa
Elongation at break (x-y plane)		210% ± 60%
Elongation at break (z plane)		13% ± 7%

*From supplier data sheet

TOLERANCES

For well-designed parts, tolerances of ± 0.010 in. plus ± 0.0015 in./in. for each additional inch can typically be achieved. Note that tolerances may change depending on part geometry.