

OLA Product Name: OLA 7000 EOS

Color: Grey-Black, White

Process: SLS/MJF

MATERIAL SUMMARY

Tolerance: $\pm 700\mu\text{m}$ or $\pm 0.7\%$

Lead Time: 4 days

Gray-Black (MJF): 377mm × 277mm × 380mm

White (SLS): 350mm × 350mm × 250mm

Notes:



EVALUATION

- **Advantages:**
 - ✓ High flexibility and shock absorption
 - ✓ Suitable for printing complex and detailed structures
 - ✓ Excellent UV and hydrolysis resistance
 - ✓ Biocompatible (ISO 10993-10 and ISO 10993-5 compliant)

- **Limitations:**
 - ✗ Differences in equipment and build size depending on color:

White TPU uses SLS technology, build size: 350mm × 350mm × 250mm

Gray-Black TPU uses MJF technology, build size: 377mm × 277mm × 380mm

KEY FEATURES

OLA TPU is a highly versatile material known for its flexibility, resilience, and ability to produce detailed and intricate parts. It is suitable for use in cushioning applications and wearable parts. The material has passed ISO 10993-10 (skin sensitization) and ISO 10993-5 (cytotoxicity) tests, making it skin-safe.

MATERIAL PROPERTIES

Melting Point: 120°C – 150°C ●

Tensile Modulus: 75–85MPa ●

Tensile Strength: 7–9MPa ●

Elongation at Break: 130% – 280%

● **Flexural Modulus:** 70–75MPa

● **Notched Impact Strength:** 44–46kJ/m²

APPLICATION SCENARIOS

- Sports and leisure products
- Footwear (e.g., midsoles for athletic shoes)
- Transportation (e.g., bicycle saddles, helmet padding, automotive seat cushions)
- Jigs and fixtures (e.g., flexible robotic grippers)

POST-PROCESSING OPTIONS

- None