

OLA Product Name: OLA Micronano Translucent Resin

Color: Translucent

Process: DLP

MATERIAL SUMMARY

Tolerance: $\pm 20\mu\text{m}$ or $\pm 0.02\%$

Lead Time: 4 days

Maximum Printing Size: 84mm × 63mm × 70mm

Notes:



EVALUATION

- **Advantages**
 - ① Excellent balance of mechanical strength and heat resistance
 - ② Biocompatible for use in medical-grade components
 - ③ High precision for micro-scale features ($\geq 50\mu\text{m}$)
- **Disadvantages**
 - ① Limited toughness, may not be suitable for high-impact parts

KEY FEATURES

OLA micro/nano translucent resin enables ultra-high-resolution 3D printing with feature sizes as small as $50\mu\text{m}$ and machining precision down to $\pm 20\mu\text{m}$. Suitable for ultra-thin endoscopic tips, microfluidic chips, and other compact medical structures.

APPLICATION SCENARIOS

- Widely used in medical devices, biomedical research, and microscale engineering applications.

MATERIAL PROPERTIES

Heat Deflection Temperature
(@0.45MPa): 80°C

Dielectric Constant (ϵ / 5GHz): 3

Dielectric Loss ($\tan\delta$ / 5GHz): $3.53\text{e-}2$

Tensile Strength: 40 MPa

Elongation at Break: 3%

Flexural Modulus: 1500 MPa

Flexural Strength: 50 MPa

Viscosity: 200 cps

POST-PROCESSING OPTIONS

- None