

OLA Product Name: OLA 8500

Color: Dark Blue

Process: SLA

MATERIAL SUMMARY

Tolerance: $\pm 200\mu\text{m}$ or $\pm 0.2\%$

Lead Time: 72 hours

Maximum Printing Size: 600mm × 600mm × 400mm

Notes: This material is our engineers' top-recommended cost-effective option after extensive testing, demonstrating stable overall performance. However, there remains a possibility of material performance variations during mass production.



EVALUATION

- **Benefits:**
 - ✓ Outstanding strength and high toughness
 - ✓ Wide range of applications
 - ✓ Combines high precision with surface quality
 - ✓ Heat resistance up to 60°C
- **Limitations:**
 - ✗ Support marks on contact surfaces
 - ✗ Color variation after sanding

KEY FEATURES

This professional-grade 3D printing resin combines exceptional toughness with high-temperature resistance, expanding possibilities for functional end-use parts.

MATERIAL PROPERTIES

HDT: 62°C

Elongation at Break: 24%

Shore Hardness: 83

Tensile Strength: 46MPa

Poisson's Ratio: 0.45

Tensile Modulus: 2310MPa

Flexural Strength: 73MPa

Flexural Modulus: 2050MPa

● **Notched Impact:** 47J/m

Water Absorption: 0.75%

● **Dielectric Constants:** 60Hz 4.6 | 1KHz 4.2 | 1MHz 3.7

Dielectric Strength: 17.7kV/mm

APPLICATION SCENARIOS

- **Aerospace Functional Testing:** Drone housings, internal components, spacecraft models, aviation parts.
- **Automotive Parts & Accessories:** Mirrors, dashboards, steering wheels, lights, seats, handles, GPS devices, dash cams, car vacuums, parking sensors.
- **Consumer Electronics:** Laptops, tablets, smartphones, cameras, game consoles, speakers, MP3 players, power banks.
- **Electromechanical Equipment:** Display panels, cameras, switches, sockets, power tools, electrical instruments, lab devices, gauges.

POST-PROCESSING OPTIONS

- **Thread tapping**