

OLA Product Name: OLA R4600

Color: White

Process: SLA

MATERIAL SUMMARY

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

Lead Time: 48 hours

Maximum Printing Size: 580mm x 580mm x 380mm

Notes : Store and use below 25°C; maintain relative humidity under 38% RH to preserve performance.



EVALUATION

Advantages:

- ✓ High-precision tough parts manufacturing
- ✓ Excellent dimensional stability (minimal shrinkage)
- ✓ Anti-yellowing & superior post-processing

Limitations:

- ⚠ Heat deflection temperature relatively low

KEY FEATURES

OLA R4600 is one of our flagship SLA resins, offering a well-balanced combination of strength and toughness. This material provides exceptional overall performance and outstanding value, making it ideal for a wide range of industrial applications. It is well-suited for master models, concept prototypes, general-purpose parts, and functional components in industries such as automotive, healthcare, and consumer electronics.

MATERIAL PROPERTIES

Heat Deflection Temperature: 44°C

Shore Hardness: 79

Tensile Modulus: 2649–2731 MPa

Tensile Strength: 38 MPa

Elongation at Break: 8%

Flexural Strength: 69–76 MPa

Flexural Modulus: 2722–2792 MPa

Notched Impact Strength: 29–34 J/m

Thermal Expansion Coefficient: 90~103 $\times 10^{-6}/^{\circ}\text{C}$

Poisson's Ratio: 0.4–0.44

Dielectric Constant (60Hz): 4.2~5.0

Dielectric Constant (1KHz): 3.3~4.2

Dielectric Strength: 12.8~16.1kV/mm

APPLICATION SCENARIOS

- **Home:** ACs, purifiers, fans
- **Auto:** Dashboards, mirrors, lights
- **Electronics:** Phones, tablets, cameras
- **Industrial:** Control panels, power tools
- **Medical:** Dental/skin-contact prototypes

POST-PROCESSING OPTIONS

- Painting
- Thread tapping
- Polishing