

OLA Product Name: OLA 8100

Color: White

Process: SLA

MATERIAL SUMMARY

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

Lead Time: 72 Hours

Maximum Printing Size: 600mm \times 600mm \times 400mm

Notes: This product is recommended for prototyping and functional testing only, and not for use as a final production material. For thin-walled structures, it is advised to add reinforcing ribs or adjust the design to ensure stability.



EVALUATION

Advantages:

- ✓ Superior mechanical properties vs OLA 8000 (for parts $>1\text{mm}$ thickness)
- ✓ Supports various post-processing (painting/screen printing/plating)
- ✓ Excellent heat resistance (HDT 60°C)

Limitations:

- ✗ Not recommended for end-use products
- ✗ Slight layer lines on surface
- ✗ Thin walls ($<1\text{mm}$) prone to deformation
- ✗ Light yellow color

KEY FEATURES

OLA 8100 resin combines precision with outstanding mechanical and thermal properties, making it ideal for functional verification under mechanical stress and temperature variations.

MATERIAL PROPERTIES

Heat Deflection Temperature: 60°C

Elongation at Break: 11%

Shore Hardness: 82

Tensile Strength: 56MPa

Elastic Modulus: 2654MPa

Tensile Modulus: 2964MPa

Notched Impact Strength: 38.9J/m

Water Absorption: 0.4%

Dielectric Constant (60Hz): 3.9

Dielectric Constant (1KHz): 3.7

Dielectric Strength: 31kV/mm

APPLICATION SCENARIOS

- **Aerospace:** UAV components, spacecraft models
- **Automotive:** Interior/exterior parts validation
- **Electronics:** Instrument housings, functional prototypes
- **Medical:** Rehabilitation aids, orthodontic appliances

POST-PROCESSING OPTIONS

- Painting
- Thread tapping
- Polishing