

OLA Product Name: Transparent Photopolymer Resin

Color: Full transparent, Matte sandblasting

Process: SLA

MATERIAL SUMMARY

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

Lead Time: 48 hours

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

Notes:



EVALUATION

- **Benefits:**
 - ✓ Near-colorless transparency
 - ✓ Ultra-smooth surface ($Ra < 1\mu\text{m}$)
 - ✓ Low 0.35% water absorption
 - ✓ Ideal for fluid flow analysis
- **Limitations:**
 - ✗ Minor internal bubbles may occur
 - ✗ Limited clarity in complex structures
 - ✗ Not for optical-grade applications

KEY FEATURES

This professional-grade resin is specially formulated for transparent prototyping, combining optical clarity with mechanical strength.

APPLICATION SCENARIOS

- **Automotive lighting:** Lens prototypes
- **Electronics:** Transparent housings
- **Product design:** Container development
- **Fluid dynamics:** Flow observation models

MATERIAL PROPERTIES

- **HDT:** 49°C
- **Tensile Strength:** 50MPa
- **Shore Hardness:** 87D
- **Elongation at Break:** 7.5%
- **Tensile Modulus:** 2700MPa
- **Impact Strength:** 25J/m
- **Dielectric Strength:** 16.3kV/mm
- **Water Absorption:** 0.35%

POST-PROCESSING OPTIONS

- **Painting**
- **Thread tapping**
- **Polishing**
- **Dyeing supported**