



OLA HEAT-RESISTANT RESIN

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OLA Product Name: OLA heat-resistant resin

Color: Transparent red

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:



EVALUATION

- **Benefits:**
 - ✓ Stable at 80°C high temperature
 - ✓ $\pm 0.2\%$ dimensional accuracy
 - ✓ Wear-resistant hard surface
 - ✓ Ideal for precision components
- **Limitations:**
 - ✗ Minimum wall thickness $\geq 1.5\text{mm}$
 - ✗ Low toughness (1.5% elongation)
 - ✗ Not for high-impact applications

KEY FEATURES

Extreme heat resistance, High dimensional stability, Superior hardness

This professional-grade resin is engineered for high-temperature applications while maintaining exceptional precision.

MATERIAL PROPERTIES

HDT(0.45MPa): 80°C

Tensile Strength: 42.7MPa

Tensile Modulus: 3235MPa

Elongation at Break: 1.5%

Flexural Modulus: 3165MPa

APPLICATION SCENARIOS

- Specially designed for extreme high-temperature environments, ideal for aerospace components (e.g., engine heat shields), electric vehicle battery modules, 5G base station cooling structures, industrial-grade 3D printed heat-resistant parts, and high-temperature electronic encapsulation. Offers exceptional thermal stability and mechanical strength, serving as a lightweight, corrosion-resistant alternative to traditional metal materials.

POST-PROCESSING OPTIONS

● None