

OLA Product Name: OLA 8000

Color: White

Process: SLA

MATERIAL SUMMARY

Tolerance: ±200µm or ±0.2%

Lead Time: 24 Hours

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

Notes: This material is highly recommended by our engineers after extensive testing and selection for its excellent cost-performance ratio and stable overall properties. However, during mass production, there remains a certain probability of potential risks such as variability in material performance.



EVALUATION

- **Advantages/Benefits:**
 - ✓ Mirror-like finish for easy post-processing
 - ✓ 99% detail reproduction accuracy
 - ✓ Excellent moisture resistance
 - ✓ Internationally certified for safety
 - ✓ Compatible with various finishing techniques
- **Limitations:**
 - ✗ Moderate strength (not for load-bearing)
 - ✗ Relatively brittle (6-9% elongation)
 - ✗ Limited heat resistance (max 46°C)

KEY FEATURES

As an authorized DSM IMAGE8000 resin, this material excels in surface quality, dimensional accuracy and moisture resistance, making it ideal for applications demanding premium aesthetics and environmental durability.

APPLICATION SCENARIOS

- **Premium surfaces:** Automotive interiors, electronics
- **Waterproof components:** Sanitaryware, outdoor gear
- **Medical models:** Dental/surgical guides
- **Appliance parts:** Water-contact components

MATERIAL PROPERTIES

HDT: 46°C

Shore Hardness: 79

Tensile Strength: 35MPa

Elongation at Break: 6-9%

Elastic Modulus: 2370-2650MPa

Flexural Strength: 67MPa

Flexural Modulus: 2178-2222MPa

Notched Impact: 23-29J/m

Water Absorption: 0.4%

Poisson's Ratio: 0.41

Dielectric Constants: 60Hz 3.8 | 1KHz 3.7 | 1MHz 3.4

Dielectric Strength: 17.9kV/mm

POST-PROCESSING OPTIONS

- **Painting**
- **Thread tapping**
- **Polishing**