

**OLA Product Name: OLA 7000(FARSOON)**

**Color: White**

**Process: SLS**

## MATERIAL SUMMARY

Tolerance:  $\pm 300\mu\text{m}$  or  $\pm 0.3\%$

Lead Time: 48 hours

Maximum Printing Size: 350mm  $\times$  350mm  $\times$  400mm

Notes:



## EVALUATION

- **Advantages:**
  - ✓ High heat resistance, toughness, and strength suitable for functional parts
  - ✓ No need for support structures during printing, ideal for highly complex parts
  - ✓ Chemical vapor smoothing improves surface finish and durability
  - ✓ Cost-effective by saving labor and post-processing dyeing
  - ✓ Consistent and uniform color after dyeing
- **Limitations:**
  - ✗ Slight grainy surface texture
  - ✗ Dimensional accuracy slightly less precise compared to FUTURE 8000 Resin
  - ✗ Higher cost than some other materials

## KEY FEATURES

OLA 7000 Farsoon is a high-performance SLS nylon material known for its excellent heat deflection temperature and strength, making it suitable for functional parts. Post-processing with chemical vapor smoothing significantly enhances part quality by smoothing and sealing surfaces, improving water and air tightness, ensuring consistent post-treatment, maintaining dimensional accuracy, and reducing both labor and dyeing costs with a uniform color finish.

## APPLICATION SCENARIOS

- **Home Appliances:** Structural and visual validation for products such as air conditioners, purifiers, vacuums, fans, irons, and juicers.
- **Automotive:** Functional testing of components like mirrors, dashboards, steering wheels, lights, seats, and handles.
- **Electromechanical Devices:** Housings for industrial displays, cameras, switches, sockets, power tools, measuring instruments, and lab equipment.

## MATERIAL PROPERTIES

Heat Deflection Temperature: 134°C

Melting Point: 183°C

Tensile Strength: 33.3–39.8MPa

Tensile Modulus: 1600MPa

Elongation at Break: 11%–19%

Flexural Strength: 46.3MPa

Flexural Modulus: 1300MPa

Notched Impact Strength: 4.9KJ/m<sup>2</sup>

Unnotched Impact Strength: 13.2KJ/m<sup>2</sup>

Dielectric Constant (60 Hz): 3.5

## POST-PROCESSING OPTIONS

- Thread tapping
- Black Dyeing
- Vapor Smoothing (Chemical Polishing)