

# OLA 7200 GLASS-FIBER REINFORCED NYLON

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**OLA Product Name: OLA 7200 Glass-Fiber Reinforced Nylon**

**Color: Light Gray**

**Process: SLS**

## MATERIAL SUMMARY

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

Lead Time: 48 hours

Equipment sizes: 350 mm × 350 mm × 400 mm

Minimum Printable Size: 350 mm × 350 mm × 400 mm

Notes:



## EVALUATION

- **Advantages:**
  - ✓ Excellent heat resistance and dimensional stability
  - ✓ High toughness and mechanical strength
  - ✓ Good chemical resistance
  - ✓ Ideal for structural validation of functional prototypes
- **Limitations:**
  - ✗ Grainy surface finish
  - ✗ Product color may vary due to material properties and build temperature

## KEY FEATURES

OLA 7200 is a glass-fiber reinforced nylon material offering significantly improved heat deflection temperature and mechanical strength compared to standard nylon. Its excellent structural integrity, stability under high temperatures, and resistance to chemicals make it a reliable choice for structural validation of product prototypes in demanding environments.

## MATERIAL PROPERTIES

Heat Deflection Temperature: 152.4°C

Melting Point: 184°C

Tensile Strength: 44MPa

Tensile Modulus: 3500MPa

Elongation at Break: 5%

Flexural Strength: 65MPa

Flexural Modulus: 2400MPa

● Notched Impact Strength: 4.13KJ/m<sup>2</sup>

Unnotched Impact Strength: 19.28KJ/m<sup>2</sup>

● Dielectric Constant (60Hz): 3.7

## 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.

## POST-PROCESSING OPTIONS

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