

**OLA Product Name: OLA P9000(BASF)**

**Color: Light Gray**

**Process: SLS**

## MATERIAL SUMMARY

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

**Lead Time:** 72 hours

**Maximum Printing Size:** 350mm × 350mm × 400mm

**Notes:**



## EVALUATION

- **Advantages:**
  - ✓ Exceptional dimensional accuracy and toughness
  - ✓ Superior chemical resistance for use in harsh environments
- **Limitations:**
  - ✗ Slightly rough, grainy surface texture due to SLS process

## KEY FEATURES

OLA P9000 Nylon (BASF) is an advanced SLS material that offers a balanced combination of rigidity, toughness, and wear resistance. It is particularly suitable for producing durable jigs, fixtures, enclosures, and components that undergo frequent mechanical stress or friction. Its chemical resistance also makes it ideal for applications exposed to aggressive environments.

## APPLICATION SCENARIOS

- **Home Appliances** – Prototypes for air conditioners, vacuums, fans, juicers, etc.
- **Automotive** – Parts like mirrors, dashboards, lights, seats.
- **Electronics** – Housings for phones, laptops, cameras, speakers.
- **Industrial** – Tools, switches, meters, display components.
- **Chemical Use** – Ideal for parts exposed to oils or chemicals.

## MATERIAL PROPERTIES

- **Heat Deflection Temperature:** 123°C
- **Tensile Strength:** 16.7MPa
- **Tensile Modulus:** 1980MPa
- **Elongation at Break:** 55%
- **Flexural Strength:** 33MPa
- **Flexural Modulus:** 2000MPa
- **Charpy Impact Strength (Notched):** 3.0 & 17kJ/m<sup>2</sup>
- **Izod Impact Strength (Notched):** 3.8 & 14kJ/m<sup>2</sup>
- **Dielectric Constant:** 3.331

## POST-PROCESSING OPTIONS

- **Thread tapping**