

# **OLA 7100PRO**

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**OLA Product Name: OLA 7100Pro** 

**Color: Black** 

**Process: SLS** 

### **MATERIAL SUMMARY**

Tolerance: ±300 µm or ±0.3%

Lead Time: 48 hours

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

Notes:



## **EVALUATION**

- Advantages
- √ Excellent toughness and mechanical strength
  - ✓ Isotropic properties (consistent across all directions)
  - √ Good heat and chemical resistance
  - √ Lower cost compared to standard PA12 SLS materials
  - √ Suitable for both prototyping and functional production parts
- Limitations
  - X Not recommended for use in electrical insulation testing environments

### **KEY FEATURES**

OLA 7100Pro is a cost-effective nylon-like PA12 SLS material offering excellent mechanical properties and durability. It's engineered for long-term usage, with high dimensional stability and consistent strength across all directions. Compared to traditional PA12, 7100Pro provides similar performance at a significantly lower cost, making it one of the most economical and widely applicable SLS materials on the market.

#### **APPLICATION SCENARIOS**

- Functional prototypes and end-use parts
- Automotive components and tooling
- Electronics housings and brackets
- Medical device parts and customized fixtures
- Spare parts and small-batch production

### **MATERIAL PROPERTIES**

Heat Deflection Temperature (HDT @1.8MPa): 52°C

Heat Deflection Temperature (HDT @0.45MPa): 145°C

Melting Point (10°C/min): 185.5°C

Elongation at Break (ISO527-1:2018): 40% (X/Y)

Tensile Modulus (ISO527-1:2019): 1450MPa (X/Y)

Tensile Strength (ISO527-1:2019): 42MPa (X/Y)

Flexural Modulus (GB/T 9341-2008): 1400MPa (X/Y)

Flexural Strength (GB/T 9341-2008): 48MPa (X/Y)

Notched Impact Strength (GB/T 1843-2008): 10KJ/m<sup>2</sup> (X/Y)

Unnotched Impact Strength (GB/T 1843-2008): 32KJ/m² (X/Y)

#### POST-PROCESSING OPTIONS

Thread tapping