



OLA 7500 HIGH-PERFORMANCE

NYLON (PA12)

GET IN TOUCH CH +86 17169960305

OR AT SALES@OLA3DP.COM

WWW.OLA3DP.COM

OLA Product Name: OLA 7500 High-Performance Nylon (PA12)

Color: Black, Gray (natural color)

Process: MJF

MATERIAL SUMMARY

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

Lead Time: 24 hours

Maximum Printing Size: 377mm x 277mm x 380mm

Notes:



EVALUATION

- **Advantages:**
 - ✓ Superior detail resolution and dimensional accuracy
 - ✓ Capable of printing fine holes, thin walls, strong and complex structures
 - ✓ Suitable for precise functional prototypes and internal components
- **Limitations:**
 - ✗ Slight graininess (less than typical SLS nylon parts)
 - ✗ Inconsistent coloration due to non-dyeing (black/gray finish only)

KEY FEATURES

OLA 7500 is a high-performance PA12 material optimized for MJF printing technology. It provides outstanding part quality with exceptional surface detail and dimensional accuracy, making it ideal for intricate components and complex assemblies. A preferred choice for internal structures, housings, connectors, and functional parts requiring precision.

MATERIAL PROPERTIES

- Tensile Strength: 48MPa
- Tensile Modulus: 1800MPa
- Elongation at Break: 15–20%
- Flexural Strength: 70MPa
- Flexural Modulus: 1800MPa
- Shore Hardness: 80
- Notched Impact Strength: 3.5–3.6kJ/m²
- Heat Deflection Temperature: 155°C
- Melting Point: 187°C

APPLICATION SCENARIOS

- Home appliances (e.g., air purifiers, vacuum cleaners, fans, juicers, hair dryers)
- Automotive parts (e.g., mirrors, dashboards, lights, seats, steering wheels)
- Consumer electronics (e.g., laptops, phones, cameras, speakers, power banks)
- Electromechanical devices (e.g., switches, tools, instruments, panels)
- Art and toys (e.g., decor, figurines, design prototypes)

POST-PROCESSING OPTIONS

- Thread tapping
- Vapor Smoothing (Chemical Polishing)