

OLA Product Name: OLA 7200Pro Glass-Filled Nylon

Color: Grey-Black

Process: SLS

MATERIAL SUMMARY

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

Lead Time: 4 days

Equipment Size: 550 mm \times 550 mm \times 850 mm

Minimum Build Size: 500 mm \times 500 mm \times 820 mm

Notes:



EVALUATION

- **Advantages:**
 - ✓ Excellent strength and heat resistance
 - ✓ High reusability – ideal for repeated production cycles
 - ✓ Suitable for demanding mechanical and thermal conditions
- **Limitations:**
 - ✗ Slightly rough surface texture
 - ✗ Less suited for applications requiring smooth finishes

KEY FEATURES

OLA 7200Pro is a gray-black, glass bead-filled nylon material featuring a unique balance of excellent rigidity and good elongation at break. It is particularly suited for applications requiring high stiffness, heat resistance, and wear durability. This material is optimized for repeated use in demanding industrial environments.

APPLICATION SCENARIOS

- Structural and appearance validation of functional prototypes
- Automotive parts (housings, brackets, interior/exterior functional components)
- Household appliances (air conditioners, vacuum cleaners, fans, irons, juicers)
- Electromechanical devices (industrial enclosures, tools, instruments)
- Ideal for low-volume production and load-bearing applications

MATERIAL PROPERTIES

Heat Deflection Temp (ASTM D648, 1.8MPa): 126°C ●

Heat Deflection Temp (ASTM D648, 0.45MPa): 184.4°C ●

Elongation at Break (ASTM D638): 5%–8% ●

Tensile Modulus (ASTM D256): 2398MPa ●

Tensile Strength (ASTM D638): 32MPa

Flexural Modulus (ASTM D790): 2241MPa

● Flexural Strength (ASTM D790): 71MPa

Notched Izod Impact (ASTM D256): 29J/m

● Unnotched Izod Impact (ASTM D256): 264J/m

POST-PROCESSING OPTIONS

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