

OLA Product Name: OLA ABS

Color: Black, White

Process: FDM

MATERIAL SUMMARY

Tolerance: $\pm 200\mu\text{m}$ or $\pm 0.2\%$

Lead Time: 4 days

Maximum Printing Size: 1000mm × 610mm × 610mm

Notes:



EVALUATION

- **Benefits:**
 - ✓ 25–70% stronger than standard ABS
 - ✓ Outstanding tensile/impact/flexural strength
 - ✓ Smoother surface with finer details
 - ✓ Soluble supports for complex structures
 - ✓ Injection-molding-like quality
- **Limitations:**
 - ※ Layer lines inherent to FDM
 - ※ Not for $\leq 100\text{mm}/\leq 100\text{g}$ precision parts

KEY FEATURES

Engineering thermoplastic, High strength, Injection-molding-like quality
Engineering-grade thermoplastic with injection-molding comparable performance

Soluble support enables complex internal structures and piping parts

Combines high strength with precision for consistent production

MATERIAL PROPERTIES

HDT: 82–96°C

Hardness: 109.5

Tensile Strength: 28–32MPa

Tensile Modulus: 2180–2230MPa

Elongation at Break: 2–7%

Flexural Strength: 48–60MPa

Flexural Modulus: 1760–2060MPa

Notched Impact: 128–300J/m

Flammability Rating: HB

APPLICATION SCENARIOS

- **Home Appliances:** Structural and functional validation for ACs, air purifiers, vacuums, fans, irons, water dispensers, juicers.
- **Automotive Industry:** Prototyping and testing mirrors, dashboards, steering wheels, headlights, seats, handles.
- **Consumer Electronics:** Structural and impact testing for laptops, tablets, phones, cameras, game consoles.
- **Industrial Equipment:** Verification of displays, camera housings, switches, sockets, power tools, electrical instruments.
- **Functional Prototypes & End-Use Parts:** Medium-strength functional parts, production jigs, fixtures, and small-batch components.

POST-PROCESSING OPTIONS

- **None**