



OLA NYLON CARBON FIBER

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OLA Product Name: OLA Nylon Carbon Fiber

Color: Black

Process: FDM

MATERIAL SUMMARY

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

Lead Time: 4 days

Maximum Printing Size: 914mm × 610mm × 914mm

Notes:



EVALUATION

- **Benefits:**
 - ✓ Excellent chemical and corrosion resistance
 - ✓ Great machinability
 - ✓ Significantly improved mechanical and thermal performance
- **Limitations:**
 - ✗ Slight layer lines visible on part surfaces

KEY FEATURES

Nylon carbon fiber is an advanced composite material combining nylon resin with carbon fiber particles. It retains the inherent advantages of nylon—chemical and corrosion resistance—while significantly enhancing mechanical strength and heat resistance.

APPLICATION SCENARIOS

- **Home Appliance Prototyping:** Air conditioners, purifiers, vacuum cleaners, fans, irons, water dispensers, juicers, hair dryers
- **Automotive Components:** Mirrors, dashboards, steering wheels, lamps, seats, handles, and accessories such as GPS devices, recorders, vacuum cleaners, and parking sensors
- **Electronics & Electrical Enclosures:** Relay housings, switches, circuit boards, coil frames, and printed circuit boards

MATERIAL PROPERTIES

Heat Deflection Temperature: 143°C

Tensile Modulus: 2300–7515MPa

Tensile Strength: 34.4–75.6MPa

Elongation at Break: 1.2–1.9%

Flexural Strength: 58.1–142MPa

Flexural Modulus: 1830–10620MPa

Notched Impact Strength: 21.4–85J/m

POST-PROCESSING OPTIONS

- None