



OLA 6130 CARBON-FIBER REINFORCED NYLON (PA6+CF)

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OLA Product Name: OLA 6130 Carbon-Fiber Reinforced Nylon (PA6+CF)

Color: Black

Process: SLS

MATERIAL SUMMARY

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

Lead Time: 8 days

Maximum Printing Size: 335mm \times 335mm \times 400mm

Notes:



EVALUATION

- **Advantages:**
 - ✓ Exceptional mechanical strength and stiffness
 - ✓ Excellent wear and heat resistance
 - ✓ Suitable for metal replacement in structural components
 - ✓ Corrosion-resistant and ideal for demanding industrial environments
- **Limitations:**
 - ✗ Large shell parts may experience deformation

KEY FEATURES

OLA 6130 PA6+CF is a carbon fiber-reinforced nylon material that delivers superior strength, stiffness, and heat resistance. Engineered for high-performance applications, it can replace traditional aluminum alloys and is suitable for complex load-bearing structures. Ideal for functional testing, small-batch production, and parts traditionally made via CNC or injection molding.

APPLICATION SCENARIOS

- Functional testing and small-batch production
- Load-bearing brackets and structural components
- CNC and injection molded part replacement
- End-use parts in automotive, electronics, and machinery industries under high-temperature conditions

MATERIAL PROPERTIES

Heat Deflection Temperature (HDT @1.8MPa): 210°C ●

Heat Deflection Temperature (HDT @0.45MPa): 214°C ●

Tensile Modulus (ISO 527-1:2019): 10,000MPa ●

Tensile Strength (ISO 527-1:2019): 110MPa ●

Elongation at Break (ISO 527-1:2018): 2.5%

Flexural Modulus (ISO 178:2019): 6000MPa ●

Flexural Strength (ISO 178:2019): 135MPa ●

Notched Impact Strength (ISO 180:2019): 4KJ/m² ●

Unnotched Impact Strength (ISO 180:2019): 25KJ/m²

POST-PROCESSING OPTIONS

- None