

OLA Product Name: OLA6000 PLA

Color: Black, White

Process: FDM

MATERIAL SUMMARY

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

Lead Time: 4 days

Maximum Printing Size: 256mm × 256mm × 256mm

Notes:



EVALUATION

- **Advantages**
 - ① Easy to print with high dimensional accuracy
 - ② Excellent stability during printing
 - ③ Cost-effective and eco-friendly
- **Limitations**
 - ① More brittle than other engineering plastics
 - ② Design risks to consider (not covered by after-sales warranty):
 - Features < $\varnothing 2\text{mm}$ may break or be incomplete
 - Surfaces < 45° may be rough or deformed
 - Flat areas > 150mm may warp
 - Heavily supported parts may have rough undersides
 - Complex internal geometries may trap support material

KEY FEATURES

OLA 6000PLA is an environmentally friendly, biodegradable thermoplastic derived from renewable resources. It offers a wide range of colors and surface finishes. The material exhibits excellent dimensional stability and is easy to print, making it ideal for complex shapes and prototypes. However, it is more brittle compared to other plastics.

MATERIAL PROPERTIES

Heat Deflection Temperature: 53°C

Tensile Strength: 60MPa

Elongation at Break: 18.3%

Flexural Modulus: 2266MPa

Impact Strength: 6KJ/m²

APPLICATION SCENARIOS

- Used in industrial jigs and fixtures, internal functional components, figurines, and models.

POST-PROCESSING OPTIONS

- Thread tapping