

OLA Product Name: OLA 9085

Color: Natural (light brown tone)

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 mechanical stability at elevated temperatures
 - ✓ High strength-to-weight ratio
 - ✓ Outstanding dimensional stability and flame resistance
 - ✓ Certified for aerospace and automotive applications
- **Limitations:**
 - ✗ Slight layered texture on part surfaces due to FDM printing

KEY FEATURES

OLA 9085 is an amorphous thermoplastic with an outstanding strength-to-weight ratio and excellent FST (Flame, Smoke, Toxicity) ratings. Due to its existing certifications and superior performance under demanding conditions, it is ideal for aerospace, automotive, and military applications.

MATERIAL PROPERTIES

- **Heat Deflection Temperature:** 153°C
- **Tensile Modulus:** 2150–2270MPa
- **Tensile Strength:** 42–69MPa
- **Elongation at Break:** 2.2–5.8%
- **Flexural Strength:** 68–112MPa
- **Flexural Modulus:** 2050–2300MPa
- **Flame Rating:** V-0

APPLICATION SCENARIOS

- **Aerospace Components:** Trolleys, transportation fixtures, luggage racks, seat covers, and other flame-retardant parts
- **Automotive Applications:** Temperature sensors and structural components
- **Electronic & Electrical Enclosures:** Relay housings, switches, circuit boards, coil frames, and PCBs
- **Medical Devices:** Sterilization containers, surgical tool handles, trays, jigs, reflectors, and instruments

POST-PROCESSING OPTIONS

- **None**