

OLA Product Name: OLA 1010

Color: Natural (light brown tint)

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 flame resistance and high thermal tolerance
 - ✓ Good chemical resistance
 - ✓ Strong and durable with stable electrical properties
 - ✓ Easy to process
- **Limitations:**
 - ✗ Slight surface layer lines may be visible on printed parts

KEY FEATURES

OLA 1010 is one of the few thermoplastic resins approved for commercial aerospace applications. It is an amorphous engineering plastic known for its robustness, flame resistance, and stability under extreme temperatures.

MATERIAL PROPERTIES

- **Flame Rating:** V-0
- **Heat Deflection Temperature:** 216°C
- **Tensile Modulus:** 2200–2770MPa
- **Tensile Strength:** 48–81MPa
- **Elongation at Break:** 2–3.3%
- **Flexural Strength:** 77–144MPa
- **Flexural Modulus:** 2230–2820MPa

APPLICATION SCENARIOS

- **Aerospace Components:** Trolleys, racks, luggage compartments, seat covers, and other fire-retardant parts
- **Automotive & Motorcycle Parts:** Mirrors, dashboards, steering wheels, lamps, seats, and handles
- **Electronics & Electrical Enclosures:** Relay casings, switches, PCBs, coil frames, and printed circuit boards
- **Medical Devices:** Sterilization transport trays, surgical tool handles, jigs, clamps, reflectors, and utensils

POST-PROCESSING OPTIONS

- **None**