

OLA Product Name: OLA Flame-Retardant Resin

Color: Grey

Process: LCD

MATERIAL SUMMARY

Tolerance: $\pm 150\mu\text{m}$ or $\pm 0.15\%$

Lead Time: 72 hours

Maximum Printing Size: 200mm x 125mm x 210mm

Notes:



EVALUATION

- **Benefits:**
 - ✓ **UL 94 V-0 certified**
 - ✓ **Stable at 94°C high temperature**
 - ✓ **Low smoke & toxicity (FST)**
 - ✓ **Excellent creep resistance**
 - ✓ **Ready for end-use applications**

KEY FEATURES

UL 94 V-0 rated, Excellent heat resistance, Professional surface finish

This professional halogen-free material combines safety and mechanical performance for demanding applications.

APPLICATION SCENARIOS

- **Electrical: Circuit breaker housings**
- **Transportation: Interior flame-retardant parts**
- **Construction: Fire protection systems**
- **Industrial: High-temperature jigs**

MATERIAL PROPERTIES

HDT (1.8MPa): 71°C
HDT (0.45MPa): 94°C
CTE (20–80°C): 98.6 $\mu\text{m}/\text{m}/^\circ\text{C}$
Tg: 130°C
Tensile Modulus: 2.94 GPa
Tensile Strength: 38 MPa
Elongation: 9.4%
Flexural Modulus: 2.7 GPa
Flexural Strength: 72 MPa
IZOD Impact: 22 J/m
Hardness: 80D
Kmax: 1.05 MPa- $\sqrt{\text{m}}$
Wf: 311 J/m²
Dielectric Strength: 15.1 kV/mm
Dielectric Constant: 3.83 (0.5MHz), 3.82 (1MHz)
Dissipation Factor: 0.024 (0.5MHz), 0.025 (1MHz)
Viscosity: 4500–5000 cP

POST-PROCESSING OPTIONS

- **None**