

OLA Product Name: Vacuum Casting TPU(Black)

Color: Black

Process: Vacuum casting

MATERIAL SUMMARY

Tolerance: $\pm 250\mu\text{m}$ or $\pm 0.25\%$

Lead Time: 72 hours

Maximum Printing Size: 900mm × 650mm × 600mm

Notes: Lead Time; (+1 day per 3 extra pieces)



EVALUATION

- **Benefits:**
 - ✓ Good elasticity
 - ✓ Strong tensile and tear resistance
 - ✓ Cold and ozone resistant
- **Limitations:**
 - ✗ Color consistency may vary (~75% match)
 - ✗ Not suitable for oils or NaOH solutions
 - ✗ Soluble in most concentrated solvents
 - ✗ Heat resistance up to 80°C

KEY FEATURES

Excellent elasticity, good tensile strength and tear resistance

This material is a lightweight thermoplastic blend similar to PP and PE, with relatively low surface hardness.

MATERIAL PROPERTIES

Shore Hardness: 0–100A ●

Heat Resistance: 70–80°C ●

Low Temp Resistance: -10°C ●

Molding Temp: 140–180°C ●

Toughness: Good

Shrinkage: 0.8–1.3%

● **Density:** 1.2–1.4

● **Dielectric Constant:** 4.2 (60Hz)

APPLICATION SCENARIOS

- **Home Appliances:** Rubber parts in kettles, irons, microwaves
- **Electronics:** Keypads, shock absorbers, cable seal components

POST-PROCESSING OPTIONS

- **None**