



# VACUUM CASTING ABS

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OLA Product Name: Vacuum Casting ABS

Color: White, Black

Process: Vacuum casting

## MATERIAL SUMMARY

Tolerance:  $\pm 500\mu\text{m}$  or  $\pm 0.5\%$

Lead Time: 4 days

Maximum Printing Size: : 900mm  $\times$  650mm  $\times$  600mm

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



## EVALUATION

- **Benefits:**
  - ✓ Smoother surface finish than 3D prints
  - ✓ Excellent strength and thermal resistance
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## KEY FEATURES

A low-viscosity, easy-to-use polyurethane resin with excellent mechanical properties, ideal for prototypes similar to ABS thermoplastics.

## APPLICATION SCENARIOS

- ABS-like rigid plastic offers high toughness, impact resistance, and easy processing. It is suitable for appliance casings (e.g., vacuum cleaners, hair dryers), toys, automotive interior parts (dashboards, buttons), and consumer electronics (keyboards, remotes), balancing strength and surface finish.

## MATERIAL PROPERTIES

- Glass Transition Temp: 85°C
- Tensile Strength: 50MPa
- Linear Shrinkage: 2%
- Flexural Modulus: 1800MPa
- Flexural Strength: 75MPa
- Impact Strength: 60 KJ/m<sup>2</sup>
- Shore Hardness: 78D
- Max Casting Thickness: 10mm
- Full Cure Time (23°C) 4 days

## POST-PROCESSING OPTIONS

- None