



# VACUUM CASTING PA

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OLA Product Name: Vacuum Casting PA

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:
  - ✓ High strength
  - ✓ Excellent heat resistance
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## KEY FEATURES

A transparent, easy-to-process, easy-to-demold, low-shrinkage polyurethane resin with mechanical properties similar to nylon.

## 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

- Heat Deflection Temp (HDT): 65–110°C
- Tensile Strength: 60–68MPa
- Linear Shrinkage: 0.3%
- Flexural Modulus: 2000–3300MPa
- Flexural Strength: 80–88MPa
- Impact Strength: 7–14 KJ/m<sup>2</sup>
- Shore Hardness: 84–87D
- Elongation at Break: 2–15%
- Max Casting Thickness: 5mm
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## POST-PROCESSING OPTIONS

- None