



# VACUUM CASTING PC

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**OLA Product Name: Vacuum Casting PC**

**Color: White, Transparent, Black, Translucent**

**Process: Vacuum casting**

## MATERIAL SUMMARY

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

**Lead Time: 4 days**

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

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



## EVALUATION

- **Benefits:**
  - ✓ Smoother surface finish than 3D prints
  - ✓ Great combination of hardness and toughness
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## KEY FEATURES

**A transparent, easy-to-process, easy-to-demold, low-shrinkage polyurethane resin with mechanical properties similar to polycarbonate (PC)**

## APPLICATION SCENARIOS

- **PC-like rigid plastic features high transparency and impact resistance, making it suitable for safety goggles, LED lamp covers, smartphone casings, automotive light covers, and medical device components, combining safety and aesthetics.**

## MATERIAL PROPERTIES

- **Heat Deflection Temp: 50–60°C**
- **Tensile Strength: 55MPa**
- **Linear Shrinkage: 3mm/m**
- **Flexural Modulus: 1500MPa**
- **Flexural Strength: 90MPa**
- **Impact Strength: 50 KJ/m<sup>2</sup>**
- **Shore Hardness: 78D**
- **Elongation at Break: 16%**
- **Max Casting Thickness: 5mm**
- **Full Cure Time (at 23°C): 4 days**

## POST-PROCESSING OPTIONS

- **None**