



# VACUUM CASTING POM

GET IN TOUCH CH +86 17169960305  
OR AT SALES@OLA3DP.COM  
WWW.OLA3DP.COM

**OLA Product Name: Vacuum Casting POM**

**Color: Black、White**

**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:**
  - ✓ High strength and rigidity
  - ✓ Excellent dimensional stability
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## KEY FEATURES

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

## APPLICATION SCENARIOS

- **POM-like rigid plastic has self-lubricating properties and dimensional stability, making it perfect for precision gears, zipper teeth, sliding parts (e.g., printer rails), valve components, and hardware fittings in high-precision mechanical structures.**

## MATERIAL PROPERTIES

**Heat Deflection Temp (HDT): 84°C–100°C**

**Tensile Strength: 60–73MPa**

**Linear Shrinkage: 0.3%**

**Flexural Modulus: 1790–3400MPa**

**Flexural Strength: 78–92MPa**

**Impact Strength: 6–14 KJ/m<sup>2</sup>**

● **Hardness: 84–87D**

**Elongation at Break: 0.8%–16%**



## POST-PROCESSING OPTIONS

- **None**