



VACUUM CASTING PMMA

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OLA Product Name: Vacuum Casting PMMA

Color: Black, Semi-transparent, White, Fully Transparent

Process: Vacuum casting

MATERIAL SUMMARY

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

Lead Time: 4 days

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

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



EVALUATION

- **Benefits:**
 - ✓ Smoother surface finish than 3D prints
 - ✓ Excellent balance 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 acrylic (PMMA).

APPLICATION SCENARIOS

- **Acrylic-like rigid plastic offers excellent light transmission and weather resistance, suitable for advertising signs, display racks, optical lenses, bathroom fittings (bathtubs, sinks), and decorative panels, combining visual appeal and durability.**

MATERIAL PROPERTIES

- **Heat Deflection Temp (TMA): 50°C–60°C**
- **Tensile Strength (ISO 527-84): 55MPa**
- **Linear Shrinkage: 3 mm/m**
- **Flexural Modulus (ISO 178-93): 1500MPa**
- **Flexural Strength (ISO 178-93): 90MPa**
- **Impact Strength (ISO 179/ID-94): 50 KJ/m²**
- **Hardness (ISO 868-85): 78 Shore D**
- **Max Casting Thickness: 5mm**
- **Elongation at Break (ISO 37-77): 13%**
- **Full Cure Time (at 23°C): 4 days**

POST-PROCESSING OPTIONS

- **None**