

# Custom Thickened PTFE Beaker 3000ML Hotplate Heating High Temperature Deformation Resistant Fluoropolymer Labware

Item Number: PL-CP236



## Introduction

Professional 3000ml thickened PTFE beaker designed for reliable hotplate heating up to 200°C. Engineered for maximum chemical inertness and deformation resistance, this custom-fabricated laboratory vessel ensures safe, high-purity processing in demanding industrial and research environments.

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Application	Description	Key Benefit
Trace Metal Digestion	Heating samples in concentrated mineral acids for ICP-MS or AAS analysis.	Zero metal leaching and acid resistance.
Battery Electrolyte Prep	Mixing and heating aggressive lithium-ion battery electrolyte formulations.	Prevention of contamination and moisture ingress.
Semiconductor Cleaning	Batch cleaning of microelectronic components in hydrofluoric acid baths.	Exceptional resistance to fluoride-based chemistries.
Pharmaceutical Synthesis	Large-scale reaction vessel for aggressive organic synthesis involving caustic reagents.	Long-term durability and non-reactive surface.
Petrochemical Testing	Analysis of high-sulfur crude oil and volatile catalysts at elevated temperatures.	High thermal tolerance and chemical stability.
Metallurgy Analysis	Dissolution of precious metal ores using aqua regia on industrial hotplates.	Corrosion-proof performance in harsh environments.
Specialty Chemical Mfg	Mixing and heating bespoke polymer additives or corrosive surfactants.	High volume capacity with mechanical reliability.

Specification Category	Parameter Details (PL-CP236)
Model Identification	PL-CP236
Material Construction	100% Virgin High-Purity PTFE (Polytetrafluoroethylene)
Capacity	3000ml (Standard) / Fully Customizable Sizes Available
Wall Configuration	Thickened Heavy-Duty Design (Anti-Deformation)
Maximum Operating Temp	200°C (Direct Hotplate Surface Contact)
Intermittent Temp Range	Up to 260°C (General Environment)
Chemical Resistance	Universal (Except molten alkali metals and fluorine gas)
Flammability Rating	UL94 V0 (Self-extinguishing)
Manufacturing Method	Precision CNC Machined / Custom Fabricated
Cleaning Method	Autoclavable, compatible with ultra-pure acid cleaning
Base Design	Ultra-flat machined bottom for optimized thermal contact
Customization Options	Adjustable wall thickness, diameter, height, and lid integration