

# Custom Thickened PTFE Beaker High Temperature Hot Plate Heating Resistant Precision Laboratory Labware Customizable Fluoropolymer Vessel

Item Number: PL-CP076



## Introduction

Discover high-purity custom PTFE beakers designed for demanding laboratory environments. Featuring a thickened wall for superior thermal stability and 200°C hot plate resistance, these bespoke fluoropolymer vessels ensure exceptional chemical inertness and long-term durability for high-end industrial research.

[Learn More](#)

Application	Description	Key Benefit
Trace Metal Analysis	Preparation of samples using concentrated nitric or hydrofluoric acid for ICP-MS analysis.	Zero metal leaching ensures analytical accuracy.
Semiconductor Etching	Handling of corrosive etchants used in wafer processing and cleaning stages.	Extreme resistance to aggressive HF and acid blends.
Battery Research	Synthesis and testing of electrolyte components at elevated temperatures.	High thermal stability prevents vessel deformation.
Pharmaceutical Synthesis	Mixing and heating of organic reagents during active pharmaceutical ingredient (API) development.	Non-reactive surface prevents sample contamination.
Petrochemical Testing	High-temperature digestion of oil samples for sulfur and metal content determination.	Withstands 200°C sustained heating on hot plates.
Environmental Monitoring	Large-scale acid digestion of soil and water samples for pollutant detection.	Durable thickened walls handle heavy industrial usage.
Aerospace Materials Testing	Testing of specialty coatings and resins in high-temperature chemical baths.	Consistent performance in extreme processing conditions.

Specification	Details (Model: PL-CP076)
Base Material	High-Purity Polytetrafluoroethylene (PTFE)
Primary Capacity	150ml (Customizable to any volume)
Temperature Resistance (Continuous)	200°C
Temperature Resistance (Peak)	260°C
Wall Construction	Thickened Profile (Customizable wall thickness)
Heating Method	Electric Hot Plate, Sand Bath, or Oil Bath
Chemical Compatibility	Universal (pH 0-14)
Deformation Tolerance	Low-warpage precision machined base
Flammability Rating	UL94 V-0
Manufacturing Process	Precision CNC Machining / Custom Fabrication

Application	Description	Key Benefit
Specification	Details (Model: PL-CP076)	
Customization Options	Height, Diameter, Wall Thickness, Spouts, Lids, Internal Ribbing	