

# Custom Polytetrafluoroethylene Ptfе Petri Dishes 60Mm Corrosion Resistant Low Background Labware

Item Number: PL-CP93



## Introduction

High-purity custom PTFE petri dishes engineered for trace analysis and corrosive environments. Features a 60mm diameter, zero leaching, and exceptional chemical inertness to ensure absolute sample integrity in highly demanding laboratory and industrial research applications.

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Application	Description	Key Benefit
Trace Metal Analysis	Digestion and preparation of environmental samples for ICP-OES and ICP-MS analysis.	Eliminates container-sourced contamination for PPT accuracy.
Membrane Casting	Acting as a substrate for the evaporation and formation of hybrid polymer membranes.	Clean release and damage-free peeling due to ultra-low surface energy.
Semiconductor Etching	Handling of high-purity hydrofluoric acid and photoresist chemicals during wafer processing.	Absolute resistance to corrosive etching agents and high-purity maintenance.
Pharmaceutical Extraction	Processing of sensitive plant extracts and active pharmaceutical ingredients (APIs).	Minimizes adsorption of target molecules to container walls for higher recovery.
Battery Research	Testing of aggressive lithium-ion battery electrolytes and electrode materials.	Withstands corrosive electrolyte chemistries and high-temperature cycling.
Geochemical Digestion	Decomposition of rock and soil samples using concentrated mineral acids under heat.	Durable, heavy-wall construction survives repeated high-temperature acid contact.
Specialized Cell Culture	Cultivation of specific cell lines or microorganisms requiring a bio-inert fluoropolymer surface.	Non-toxic, bio-inert environment with no leaching of plasticizers.

Parameter	Technical Data (PL-CP93)	Unit / Standard
Material Component	100% Virgin Polytetrafluoroethylene (PTFE)	High-Purity Grade
Specific Gravity	2.10 - 2.20	g/cc
Melting Point	621 (327)	°F (°C)
Heat Deflection Temperature	248 (120)	°F (°C) @ 66 psi
Continuous Service Temp	-328 to +500 (-200 to +260)	°F (°C)
Hardness	55D	Shore Scale
Tensile Strength	2,990 - 4,970	psi
Flexural Strength	2,490	psi
Coefficient of Friction	0.110	Dynamic
Water Absorption	0.01	% (24 Hours)
Dielectric Constant	2.1	@ 10 <sup>6</sup> Hz

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Parameter	Technical Data (PL-CP93)	Unit / Standard
<b>Standard Diameter</b>	60	mm (Customizable)
<b>Internal Finish</b>	Super Smooth / Crevice-Free	CNC Machined
<b>Customization Options</b>	Dimensions, Wall Thickness, Lids, Features	Bespoke Design