

# Custom Virgin Polytetrafluoroethylene Sieve Mesh Solid Waste Analysis Round Square Customizable Ptfе Screens

Item Number: PL-CP58



## Introduction

Optimize your laboratory filtration with custom virgin PTFE sieve mesh designed for solid waste analysis. Available in 100 mesh or bespoke specifications, these chemically resistant round and square screens deliver unmatched durability and precision for critical industrial testing applications today.

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| Application                   | Description  | Key Benefit  |
|-------------------------------|--|--|
| Solid Waste Characterization  | Sieving and separating complex industrial waste streams for environmental compliance testing.              | Resistance to unknown chemical mixtures in waste.    |
| Hot Acid Digestion            | Used as a support or filter during the breakdown of samples with concentrated nitric or hydrochloric acid. | Total immunity to corrosive acid vapors and heat.    |
| Pharmaceutical API Filtration | Separation of active pharmaceutical ingredients from aggressive solvent-based slurries.                    | High purity prevents batch contamination.            |
| Electronics Manufacturing     | Filtration of high-purity etching chemicals and photoresist strippers in cleanroom environments.           | Zero leaching of metal ions or particulates.         |
| Petrochemical Analysis        | Sizing and filtration of petroleum derivatives and catalysts at elevated process temperatures.             | Maintains structural integrity under thermal stress. |
| Wastewater Treatment Research | Testing of heavy metal removal and particulate distribution in corrosive industrial effluents.             | Long service life in abrasive and reactive fluids.   |
| Aerospace Materials Testing   | Filtration of specialized hydraulic fluids and aerospace lubricants for debris analysis.                   | Compatible with advanced synthetic fluids.           |

| Parameter               | Specification Details for PL-CP58                         |
|-------------------------|---|
| Model Number            | PL-CP58   |
| Material                | 100% Virgin Polytetrafluoroethylene (PTFE)                |
| Manufacturing Method    | Precision Custom CNC Fabrication                          |
| Available Shapes        | Round, Square, Rectangular, or Bespoke Profiles           |
| Mesh/Aperture Size      | Customizable (e.g., 9.5mm, 100 Mesh, or specific microns) |
| Specific Gravity        | 2.10 - 2.20 g/cc  |
| Melting Point           | 327°C (621°F)   |
| Heat Deflection Temp    | 120°C (248°F) at 66 psi                                   |
| Shore Hardness          | 55D   |
| Coefficient of Friction | 0.110 (Kinetic)   |
| Tensile Strength        | 2,990 - 4,970 psi   |
| Flexural Strength       | 2,490 psi   |
| Water Absorption        | < 0.01% (after 24 hours)                                  |

| Application                | Description  | Key Benefit |
|----------------------------|--|-------------|
| Parameter                  | Specification Details for PL-CP58                              |             |
| <b>Dielectric Constant</b> | 2.1  |             |
| <b>Chemical Resistance</b> | Universal (Except molten alkali metals and elemental fluorine) |             |