

Millipore® Filter Membranes

Technical Selection & Specification Guide

Overview

Millipore® filter membranes are high-precision porous plastic films optimized for laboratory separation, purification, and diagnostic testing. They provide precise particle retention, controlled flow rates, and high chemical compatibility across biological and chemical workflows.

Membrane Selection Table

Membrane Type	Key Features	Primary Applications
MCE (Mixed Cellulose Esters)	Hydrophilic, high porosity, biologically inert.	General water testing, clarifying aqueous solutions, air monitoring.
PES (Polyethersulfone)	Fast flow rates, high throughput, low protein binding.	Sterile filtration of buffers, tissue culture media, and biologicals.
PVDF (Durapore®)	Ultra-low protein binding, high chemical resistance.	Protein sample cleanup, HPLC sample prep, high-value biomolecules.
PTFE (Fluoropore™)	Hydrophobic, maximum chemical resistance, temperature stable.	Organic solvent filtration, harsh chemicals, gas/air venting.

Physical Specifications & Parameters

- **Pore Size Range:** Available from 0.1 µm up to 8.0 µm for precise particulate classification.
- **Standard Diameters:** 13 mm, 25 mm, 47 mm, and 90 mm disc configurations.
- **Sterilization Compatibility:** Select variants compatible with autoclaving, gamma irradiation, or ethylene oxide (EtO).
- **Bubble Point:** Evaluated under standard conditions (e.g., ≥3.52 bar for 0.22 µm MCE membranes with water at 23 °C) to ensure matrix integrity.

Quality Assurance & Compliance

Millipore® products are manufactured under strict quality standards. Batch-specific Certificates of Quality (CoQ) and Certificates of Analysis (CoA) can be retrieved online using product lot numbers.

Many general MCE variants comply with specific environmental testing standards such as ASTM® D5755.

This is for informational purposes only. For medical advice or diagnosis, consult a professional. AI responses may include mistakes.