

Membrane Type	Characteristics	Applications	Industries
CA	Hydrophilic, low non-specific binding, low adsorption, thermally stable, uniform pore structure	Protein or enzyme filtration, protein recovery, tissue culture media filtration, wine filtration, prefiltration of plasma fractions and vaccines	Laboratory-Filtration; Environmental-Beverage and Water Testing
NC	Hydrophilic, resistant to mild acids, hydrocarbons, formaldehyde and petroleum ethers, high protein binding	Gravimetric and clarifications with aqueous solutions; microbial capture and detection	Laboratory-Filtration; Environmental-Beverage and Water Testing
NC transfer, unsupported	Highest sensitivity, no background, wets out naturally, easily blocked (unlike PVDF)	Nucleic acid and protein detection via Western, Southern, or Northern blotting	Laboratory-Molecular Biology and Diagnostics
NC transfer, supported	High sensitivity, low non-specific binding, internal polyester support for repeated probeds	Protein or nucleic acid detection, immunoblotting	Laboratory-Molecular Biology and Diagnostics
NY	Hydrophilic, internally supported, high surface area, high protein binding, low extractables, supported for strength for automated equipment handling	HPLC sample prep, clarify aqueous and organic solvents, alkaline solutions, beverage and pharma processing	Laboratory-Filtration, Analytical, Bioprocessing; Pharmaceutical; Environmental-Beverage Testing
NY-transfer	Higher binding capacity than NC, internally supported, can withstand multiple reprobeds	Nucleic acid detection via Southern and Northern blotting	Laboratory-Molecular Biology
PCTE	Hydrophilic, thin, smooth, low protein binding, non-reactive, tightly controlled pore size and air flow	Sterile filtration; DI water filtration, air monitoring, bacterial removal	Laboratory-Diagnostics, and Bioprocessing, Electronics Manufacturing; Industrial Hygiene
PCTE-AOX	Hydrophilic, AOX-certified absorbable organic halogen-free	Groundwater, wastewater testing for organic halides	Environmental-Water Testing
PCTE-PVPF	Hydrophobic, smooth surface allows for rapid cell migration, low extractables, lowest binding	Chemotaxis, cell culture, blood assays, cell growth venting applications	Laboratory-Diagnostics and Bioprocessing
PES	Hydrophilic, low protein binding, high throughput, asymmetric structure	Coarse particulate filtration (large pore), final filtration (small pore), biological sample prep	Environmental-Beverage Testing; Laboratory-Filtration
PETE	Hydrophilic w/no wetting agent, smooth/flat surface, precise pore size, wide solvent and chemical resistance	Trace element and aerosol analysis, batch filtration of aggressive solutions, cell studies, RBC removal from plasma	Laboratory-Diagnostics and Bioprocessing
PVDF	Naturally hydrophobic, unsupported, high sensitivity, low background, broad chemical compatibility	Protein detection via Western blotting, amino acid analysis, protein sequencing, GC sample prep	Laboratory-Molecular Biology and Diagnostics