

**Hydrophilic PES Disc Membrane Filters****Specifications**

Materials	Membrane	PES
	Wettability	Hydrophilic
	Color	White
Physical Properties	Filter Diameter	13/25/47/50/60/90/100/110/142/150/200/293 mm
	Pore Size	0.1/0.22/0.45/0.8/1.2/3.0/5.0/8.0 µm
	Maximum Operating Temp.	140°C
	pH Range	1.0 – 14.0
Sterility	Delivery Condition	Nonsterile
Package	Pack Size	100/pk, 50/pk, 25/pk

Performance

Pore Size	Bubble Point (Water 20°C)	Water Flow Rate (s/50ml/12.68cm ²) @-30KPa (water 20°C)	Thickness (µm)
0.1 µm	≥400KPa	≤85s	110±15
0.22 µm	≥350KPa	≤35s	110±15
0.45 µm	≥200KPa	≤15s	130±20
0.8 µm	≥100KPa	≤15s	150±30
1.2 µm	≥60KPa	≤12s	130±15
3.0 µm	≥40KPa	≤4.5s	100±15
5.0 µm	≥30KPa	≤3s	95±15



Features

- Naturally strong hydrophilic
- Chemical compatibility: pH 3-14
- Asymmetric structure
- High flow rate
- Low protein binding

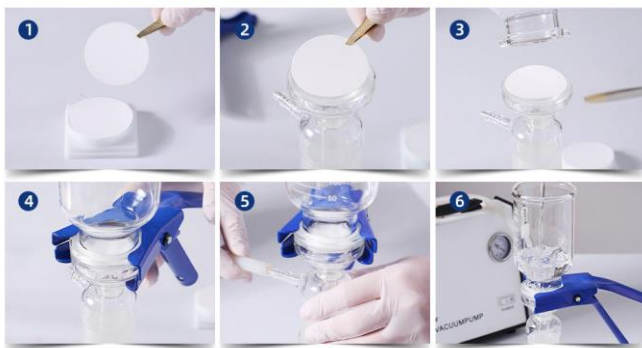
Applications

- Sterile filtration
- Aqueous solution filtration
- Liquid of high temperature filtration

How to Use a PES Membrane Filter

1. Take one filter paper (not the blue backing paper) out of the box.
2. Place the membrane filter on the funnel assembly.
3. Adjust the sample container on the proper position.
4. Fix with a locker clip or clamp.
5. Attach the vacuum pump to the filtration set.
6. Pour the sample into the sample container and turn on the vacuum.

How to use a membrane?





How to Choose a Membrane Filter

Medium, buffer filtration ----- PES membrane

Low protein adsorption filtration --- PVDF membrane

Solvent mixture ----- Nylon or Hydrophilic PTFE membrane

Non-polar (hydrophobic) solution -- Hydrophobic PTFE membrane

Polar (hydrophilic) solution ----- Nylon membrane

Corrosive solution ----- Hydrophobic PTFE membrane

Gas filtration ----- Hydrophobic PTFE membrane

How to Choose Membrane Filter ?

