

PTFE Membrane Filters

PTFE Membrane Filters for filtration are made of PTFE (polytetrafluoroethylene) and were drawn 2-dimension. It is a micro-pore film. The PTFE membrane was laminated with a great variety of fabric and paper. Applied to extensive industries, including air monitoring, biochemistry, microelectronic, lab material and etc. Directly and indirectly related to pharmacy brewing, manufacture of pure water and special need water, beverage and dairy, chemical reagent, biochemical reagent, air filtration of fermentation tank in microelectronic, purification and filtration in microelectronic plants, filtration and separation of antibacterial fluid, production of medicine, air conditioning of hospitals and commercial buildings.

Features

- PTFE membrane with supporting layer polyester or polypropylene
- PTFE membrane can effectively filtrate microorganisms and other particulates
- Wide chemical compatibility
- High-temperature resistance
- Low starting resistance

Applications

- Air monitoring.
- Filtration of strong acids and aggressive solutions.
- Venting applications.
- Phase separations.
- Aerosol sampling.

Specification

Membrane Material	Support	Pore Size (µm)	Average Bubble Point (Mpa)	Flow Rate (25°C) Δp:0.07Mpa (mL/min/cm ²)	Thickness (µm)
PTFE Hydrophobic	PP	0.1	0.2-0.22(Alcohol)	4-8	140-190
		0.22	0.13-0.17(Alcohol)	17-22	
		0.45	0.08-0.12(Alcohol)	35-45	
		1	0.04-0.06(Alcohol)	50-70	
		3	0.03-0.04(Alcohol)	90-120	
PTFE Hydrophilic	PP	5	0.02-0.03(Alcohol)	250-320	140-190
		0.22	0.34-0.45(Water)	10-18	
		0.45	0.2-0.3(Water)	25-35	
		1	0.12-0.15(Water)	45-65	

Order Information

Part Number#	Description
PTFE-022-2500	: Membrane Filter PTFE Hydrophobic (0.22µm)25 mm (200/pk)
PTFE-022-3700	: Membrane Filter PTFE Hydrophobic (0.22µm)37 mm (200/pk)
PTFE-022-4700	: Membrane Filter PTFE Hydrophobic (0.22µm)47 mm (200/pk)
PTFE-045-2500	: Membrane Filter PTFE Hydrophobic (0.45µm)25 mm (200/pk)
PTFE-045-3700	: Membrane Filter PTFE Hydrophobic (0.45µm)37 mm (200/pk)
PTFE-045-4700	: Membrane Filter PTFE Hydrophobic (0.45µm)47 mm (200/pk)
PTFE-100-2500	: Membrane Filter PTFE Hydrophobic (1 µm)25 mm (200/pk)
PTFE-100-3700	: Membrane Filter PTFE Hydrophobic (1 µm)37 mm (200/pk)
PTFE-100-4700	: Membrane Filter PTFE Hydrophobic (1 µm)47 mm (200/pk)
PTFE-300-2500	: Membrane Filter PTFE Hydrophobic (3 µm)25 mm (200/pk)
PTFE-300-3700	: Membrane Filter PTFE Hydrophobic (3 µm)37 mm (200/pk)
PTFE-300-4700	: Membrane Filter PTFE Hydrophobic (3 µm)47 mm (200/pk)
PTFE-500-2500	: Membrane Filter PTFE Hydrophobic (5 µm)25 mm (200/pk)
PTFE-500-3700	: Membrane Filter PTFE Hydrophobic (5 µm)37 mm (200/pk)
PTFE-500-4700	: Membrane Filter PTFE Hydrophobic (5 µm)47 mm (200/pk)

Please contact us for other diameters.

PVDF Membrane Filters

PVDF Membrane Filters so particularly microporous membranes, prepare to exhibit high efficiency for particle removal, and have low critical surface energy.

Conventional, hydrophobic, microporous PVDF membranes are not pass water, so they hold water.

Our PVDF Membrane Filters consist of a reinforced-type PVDF membrane. It can ensure wet air and other gas pass through smoothly, even when the differential pressure is very low. It holds the opposite capability against PVDF hydrophilic membrane.

Features

- Easy processing by extrusion, injection, compression, blow molding, the solution process
- PVDF Disc Filters have excellent mechanical properties
- High-temperature capabilities and excellent aging resistance
- Physiologically harmless and approved for contact with food products -Low extractable levels
- PVDF Disc Filters have wide chemical compatibility

Applications

- Chemical Process Industry (pipes and fittings, pumps, valves, etc.)
- High purity fluid transportation
- Lithium batteries
- Offshore oil industry (multilayer structures for oil and gas, etc.)
- Plumbing
- Wire and cables (communication cable jacket in the USA, etc.)

Specification

Membrane Material	Pore Size (µm)	Average Bubble Point (Mpa)	Flow Rate (25°C) Δp:0.07Mpa (mL/min/cm ²)	Thickness (µm)
PVDF Hydrophobic	0.22	0.12-0.15(Alcohol)	8-12	120-140
	0.45	0.06-0.10(Alcohol)	30-45	
PVDF Hydrophilic	0.22	0.36-0.42(Water)	8-15	120-140
	0.45	0.18-0.24(Water)	35-60	

Order Information

Part Number#	Description
PVDF-022-2500	: Membrane Filter PVDF Hydrophobic (0.22µm)25 mm (200/pk)
PVDF-022-3700	: Membrane Filter PVDF Hydrophobic (0.22µm)37 mm (200/pk)
PVDF-022-4700	: Membrane Filter PVDF Hydrophobic (0.22µm)47 mm (200/pk)
PVDF-045-2500	: Membrane Filter PVDF Hydrophobic (0.45µm)25 mm (200/pk)
PVDF-045-3700	: Membrane Filter PVDF Hydrophobic (0.45µm)37 mm (200/pk)
PVDF-045-4700	: Membrane Filter PVDF Hydrophobic (0.45µm)47 mm (200/pk)
PVDF-022-2500-W	: Membrane Filter PVDF Hydrophilic (0.22µm)25 mm (200/pk)
PVDF-022-3700-W	: Membrane Filter PVDF Hydrophilic (0.22µm)37 mm (200/pk)
PVDF-022-4700-W	: Membrane Filter PVDF Hydrophilic (0.22µm)47 mm (200/pk)
PVDF-045-2500-W	: Membrane Filter PVDF Hydrophilic (0.45µm)25 mm (200/pk)
PVDF-045-3700-W	: Membrane Filter PVDF Hydrophilic (0.45µm)37 mm (200/pk)
PVDF-045-4700-W	: Membrane Filter PVDF Hydrophilic (0.45µm)47 mm (200/pk)

Please contact us for other diameters.