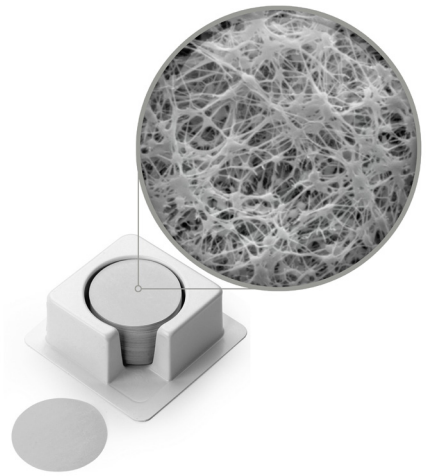
PTFE MEMBRANE FILTERS



PTFE membranes are available in hydrophilic, hydrophobic, supported, and unsupported options for a wide range of applications involving strong/aggressive acids, bases, and solvents incompatible with most other filtration media.

APPLICATIONS

Laminated Hydrophobic

- Clarification and sterilization of aggressive chemicals
- Gas sterilization
- Venting gas from aqueous solutions (when pre-wetted w/methanol)
- Aerosol sampling
- Phase separations

Unlaminated Hydrophobic

- Filtration of high temperature acids and solvents
- Strong acid and aggressive solution filtration

Advantec Hydrophilic

- HPLC separations
- Organic and aqueous mixtures

Aspire Laminated Hydrophobic

- Medical and life science venting
- Surgical suction and smoke filtration
- Protection of renal dialysis transducers
- Phase separations
- Aerosol sampling
- Strong acid and aggressive solution filtration

PERFORMANCE BY PORE SIZE

		Air Flow Rate[1]	H_2O Flow Rate[2]	Bubble Point (psi)[3]
0.10 µm	**Laminated Hydrophobic**	2.5	39.1 (acetone)	>25.0
	Advantec Hydrophilic	1.6	14.0	≥ 55.1
	Aspire Laminated ePTFE	NA	NA	> 25.0
0.22 µm	**Laminated Hydrophobic**	2.5	61.4 (acetone)	>20.0
	Unlaminated Hydrophobic	3.4	19.4	19.0-26.0
	Advantec Hydrophilic	2.1	21.0	≥ 34.8
	Aspire Laminated ePTFE	NA	NA	>17.0-20.0
0.45 µm	**Laminated Hydrophobic**	4.8	110 (acetone)	>10.0
	Advantec Hydrophilic	2.9	39.0	≥ 20.3
	Aspire Laminated ePTFE	NA	NA	>11.0
1.00 µm	**Laminated Hydrophobic**	9.0	445 (acetone)	>8.0
	Unlaminated Hydrophobic	NA	300.0	IPA: 4.1 EtOH: 1.2
	Advantec Hydrophilic	5.7	73.0	≥ 12.0
	Aspire Laminated ePTFE	NA	NA	> 2.0
3.00 µm	**Aspire Laminated ePTFE**	NA	NA	> 1.0
5.00 µm	**Unlaminated Hydrophobic**	NA	120.0-300.0	1.0 ± 0.2
	Aspire Laminated ePTFE	NA	NA	> 0.5
20.0 µm	**Unlaminated Hydrophobic**	NA	420.0-620.0	0.25-0.40

[1] Measured as L/min/cm² ; ≤ 2 µm at 10 psi (0.7 kg/cm²), ≥ 3 µm at 5 psi (0.35 kg/cm²)

[2] Measured as mL/min/cm² at 10 psi (0.7 kg/cm²)

[3] Measured with isopropanol (IPA)