

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.

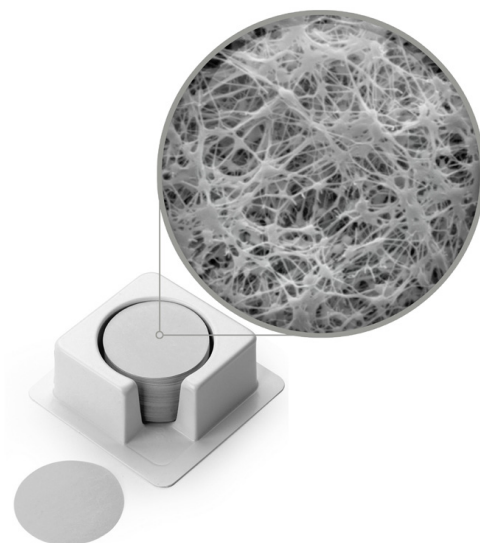
SPECIFICATIONS

PERFORMANCE BY PORE SIZE				
		Air Flow Rate ¹	H ₂ O 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)



APPLICATIONS

- Filtration of strong acids and aggressive solutions
- Venting applications
- Phase separations
- Aerosol samplings
- Filtration of aqueous solutions (when prewetted with methanol)