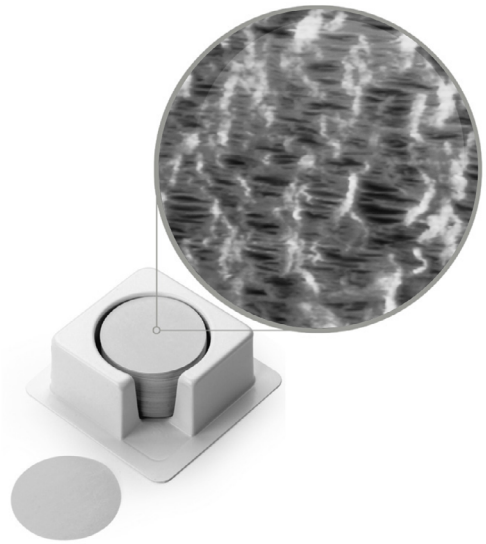
POLYETHYLENE MEMBRANE FILTERS

Polyethylene (PE) membrane filters have excellent chemical resistance and cleanliness, which makes them ideal for filtration of high purity solvents. And unlike PTFE and polypropylene membranes, UPE membranes are compatible with gamma irradiation sterilization.

PE membrane filters are highly hydrophobic making them reliable options for vent and air filtration applications. Their excellent chemical resistance also makes them a common choice for filtration of high purity solvents such as HPLC mobile phases. Integration into OEM devices is simple due to its unsupported symmetric design.



SPECIFICATIONS

PERFORMANCE BY PORE SIZE

Pore Size	Thickness	Typical Clean Airflow[1]	Typical Clean Water Flow[2]	IPA Bubble Point (bar)
0.1 µm	60-90 µm	0.15	3	2.48-3.45
0.2 µm	80-110 µm	0.28	6.8	1.65-2.21
0.45 µm	125-168 µm	0.34	12.5	1.03-1.45

*[1] L/min*cm² @70 mBar; Estimated assuming linear relationship between volumetric flow and differential pressure*

*[2] mL/min*cm² at 690mbar; For properly wetted membrane filters*

APPLICATIONS

- Vent and air filtration, especially in life science devices that are sterilized by gamma irradiation
- Filtration of compatible non-aqueous chromatography mobile phases and samples

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