



FM/267



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Teflon (PTFE) Membranes



One of the major applications for the PTFE membrane is the clarification of corrosives, solvents and aggressive fluids. This includes the important requirement in HPLC analysis for sample filtration where any solid particles can cause permanent damage to the column. The 0.5 μm pore size is normally used. Air and gas sterilization make use of the hydrophobic characteristics of PTFE membranes and their ability to stop aqueous aerosols. Usual pore sizes are 0.2 μm and 0.5 μm . Sterile venting of vacuum manifolds, fermentation vessels, and sterile filtrate tanks and containers utilize PTFE 0.2 μm membranes.

Technical Specifications

Membrane	Thickness (μm)	Flow rate $\Delta p = 0.9 \text{ bar}$ (s/100 ml)	Air flow rate $\Delta p = 3 \text{ mbar}$ (bar)‡	Bubble point ($^{\circ}\text{C}$)	Max. Temp.
(TE 35) 0.2 μm	240	24*	70	1.29	100
(TE 36) 0.45 μm	220	12*	60	0.89	100
(TE 38) 5.0 μm	265	2.2*	3.5	0.19	100

* Measured with ethanol

‡ Measured using 2-propanol

Cat. No.	Description	Pk Qty
FM/26698	PTFE membrane circles, (PTFE), 0.2 μm , 25mm	100
FM/26700	PTFE membrane circles, (PTFE), 0.2 μm , 47mm	100
FM/26706	PTFE membrane circles, (PTFE), 0.5 μm , 47mm	100
FM/26704	PTFE membrane circles, (TE 35), 0.2 μm , 47 mm	50
FM/26714	PTFE membrane circles, (TE 36), 0.45 μm , 47 mm	50
FM/26716	PTFE membrane circles, (TE 36), 0.45 μm , 50 mm	50
FM/26734	PTFE membrane circles, (TE 38), 5 μm , 47 mm	50

Vacuum Membrane filter units

These filters are ideal for separation, purification, and sterilization of biological samples. Membrane material includes, PVDF, PES, and Nylon. (SCFA are available on request) Wide bottle opening for easy access and pouring.

- Engraved graduations ensure accuracy
- Large knurls on reservoir cap for easy turning
- Hose connector fits multiple hose diameters
- Gamma irradiated and certified non-pyrogenic
- Easy-to peel open packaging; receiver bottle cap is individually wrapped
- Units are printed with lot numbers for easy identification



FU/100

Cat. No.	Pore size μm	Volume ml	Membrane material
FU/10000	0.22	150	PES
FU/10002	0.22	250	PES
FU/10004	0.22	250	PVDF
FU/10006	0.22	250	Nylon
FU/10008	0.22	500	PES
FU/10010	0.22	500	PVDF
FU/10012	0.22	500	Nylon
FU/10014	0.22	1000	PES
FU/10016	0.22	1000	PVDF
FU/10018	0.46	150	PES
FU/10020	0.45	250	PES
FU/10022	0.45	250	PVDF
FU/10024	0.45	250	Nylon
FU/10026	0.45	500	PES
FU/10028	0.45	500	PVDF
FU/10030	0.45	500	Nylon
FU/10032	0.45	1000	PES
FU/10034	0.45	1000	PVDF