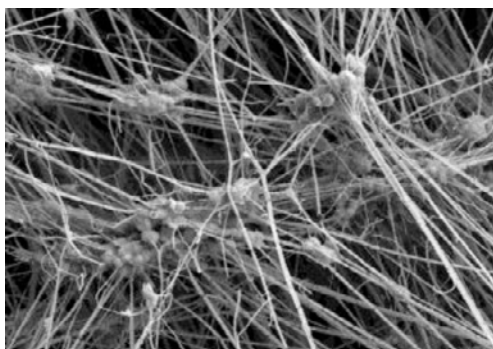


3.1 Membranes for Filtration

3.1.6 - Polytetrafluoroethylene (PTFE) Membrane - PTFESep™



Description and Use

PTFE (fine powder resin) is expanded into a 3-dimensional web-like structure called PTFE which creates billions of microscopic pores. This structure utilizes the inherent hydrophobic (water-resistant) and non-stick nature of PTFE to allow removal of particulate captured on the membrane surface. This allows air to pass

easily through the membrane while collecting particulate as small as 0.1 micron on its surface. PTFE membranes and laminates provide device manufacturers with a consistent, temperature and chemical compatible barrier to microbes and particulate matter. The optimal combination of air flow and water entry pressure adds value to most device designs.

Features and Benefits

- Naturally hydrophobic
- Compatible with strong acids and aggressive solutions
- Improved durability and handling

Typical Applications

- Filtration of strong acids and aggressive solutions
- Venting applications
- Phase separations
- Aerosol samplings

Ordering information: Polytetrafluoroethylene Membrane

Pore sizes	Dimensions	13 mm	25 mm	47 mm
	Packaging	100/pk	100/pk	100/pk
0.22 μm		1215485	1215486	1215487
0.45 μm		1215491	1215492	1215493
1.0 μm		1215502	1215503	1215504 3013362*

Pore sizes	Dimensions	90 mm	142 mm	293 mm	200x200 mm	305x305 mm
	Packaging	25/pk	25/pk	25/pk	5/pk	50/pk
0.22 μm		1215488	1215489	1215490	3026028	1267681
0.45 μm		1215494	1215495	1215496	1237423	3034300
1.0 μm		1215505	1215506	1215507	1214443	1235299

*25/pk

FILTRATION MEMBRANES

3.1.7 - Polytetrafluoroethylene (PTFE) Hydrophilic Membrane



Membrane Material:
Polytetrafluoroethylene
Membrane Diameter (mm):
25 and 47
Sterile:
No
Sterilization:
ETO, autoclave 30 min at 121 C
Max operating temp (°C):
135

General Application:
Filtration of Aqueous and Organic Solutions
Analytical Sample Prep, HPLC
Chromatography
Clarification
Fuel Hydraulic Fluids and Machined Parts

Ordering information: Polytetrafluoroethylene Hydrophilic Membrane

Product Code	Description	Pore Size	Water flow rate (ml/min/cm ²) @10 psi	Water Bubble Point (psi)
ME025NPH002BC01	Membrane Ø25mm PTFE hydrophilic 0.2 µm GVS Life Sciences 100/pc	0.22 µm	16	45
ME047NPH002BC01	Membrane Ø47mm PTFE hydrophilic 0.2 µm GVS Life Sciences 100/pc	0.22 µm	54	27

3.1.8 - Regenerated Cellulose (RC) Membrane



Membrane Material:
Regenerated Cellulose
Membrane Diameter (mm):
25 and 47
Sterile:
No
Sterilization:
Autoclave 121C, or dry heat at 180C for 2 hours, or
Gamma (25 kGy), or ETO
Max operating temp (°C):
134

General Application:
Filtration of Aqueous and Organic Solutions
Analytical Sample Prep, uHPLC
Chromatography
Clarification
Protein Chemistry

Detailed Application: General filtration, particle separation, degassing solvents, filtration requiring a strong supporting membrane. Resistant to many solvents, and to aqueous solutions in the pH range from 3 to 12. Often used for ultra-cleaning and de-gassing solvents and mobile phases for HPLC. Excellent chemical compatibility and resistance to organic solvents. Compatible with almost all solvents. Superior thermal resistance. Features low nonspecific adsorption (bovine serum albumin < 10 micrograms/cm²).

Ordering information: Regenerated Cellulose Membrane

Product Code	Description	Pore Size	Water flow rate (ml/min/cm ²) @10 psi	Water Bubble Point (psi)
ME025NRC002BC01	Membrane, Ø25 mm, RC 0.20 µm	0.20 µm	16	57
ME025NRC004BC01	Membrane, Ø25 mm, RC 0.45 µm	0.45 µm	28	36
ME047NRC002BC01	Membrane, Ø47 mm, RC 0.20 µm	0.20 µm	16	57
ME047NRC004BC01	Membrane, Ø47 mm, RC 0.45 µm	0.45 µm	28	36

3.1.9 - Polyvinylidene Fluoride (PVDF) Hydrophilic Membrane



Membrane Material:
Polyvinylidene Fluoride
Membrane Diameter (mm):
25 and 47
Sterile:
No
Sterilization:
Autoclave (121 °C at 1 bar), Gamma, Beta, ETO
Max operating temp (°C):
85

General Application:
Filtration of Aqueous and Organic Solutions
Analytical Sample Prep, uHPLC
Chromatography
Clarification
Protein Chemistry

Detailed Application: Sterilizing filtration of biological solutions. Excellent chemical compatibility with aggressive solvents, acids and alcohols. HPLC.

Ordering information: Polyvinylidene Fluoride Hydrophilic Membrane

Pore Size	25 mm 100pk	47mm 100pk	90mm 25pk
0.22	3044272	3044270	3044271
0.45	3037802	3037800	3037801