PTFE Membrane Filters

For filtering acids, bases, or solvents, as well as gases



Polytetrafluoroethylene (PTFE) membrane discs are used for a variety of filtration applications. Choose from numerous disc diameters, as well as backed or unbacked membranes and hydrophilic and hydrophobic types. For help in selecting the most appropriate product, contact the nearest Millipore office listed on the reverse side.

Fluoropore™ Membrane Filters

PTFE with Laminated Backing

Fluoropore is a PTFE membrane bonded to a high-density polyethylene support for easier handling. It has broad chemical compatibility. (Note: membrane type FHUP is *not* backed.) Applications include:

- Clarifying acids, bases, and solvents
- Air monitoring
- Filtering or venting gases
- UV spectroscopy

Mitex™ Membrane Filters

PTFE without Backing

Mitex is an unsupported PTFE membrane. It can be used under extreme chemical or temperature conditions that other membranes cannot withstand (up to 260 °C). Applications include:

- Clarifying acids, bases, and cryogenic fluids
- Clarifying propellants
- Analyzing hydraulic fluids
- Isolating RNA

LCR Membrane Filters

Hydrophilized PTFE

LCR is compatible with all commonly used HPLC solvents. It can be used to filter aqueous fluids without prior wetting. Applications include:

- Clarifying acids, bases, cryogenic fluids, and dilute protein solutions
- Clarifying propellants
- Analyzing hydraulic fluids
- Isolating RNA

MILLIPORE

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Specifications

	Fluoropore			
Type	**FGLP**	**FHLP**	**FALP**	
Pore size (µm)	0.22	0.5	1.0	
Wettability*	Hydrophobic	Hydrophobic	Hydrophobic	Hyd
Backing	Yes	Yes	Yes	
Bubble point (psi)**	14.5	9.0	7.0	
Thickness (µm)	150	150	150	
Methanol flow rate (mL/min/cm^2)†	24	60	110	
Air flow rate (L/min/cm^2)§	5	8	16	
Porosity (%)	85	85	85	
Max Temp (°C) Filtration Autoclave‡	 130 121	 130 121	 130 121	
Sterilize by ETO or autoclave‡	Yes	Yes	Yes	
Bacterial endotoxin (EU/mL)	0.5	0.5	0.5	
Gravimetric extractables (%)	<0.50	<0.50	<0.50	<

*Hydrophobic membranes can be rendered hydrophilic by wetting with methanol or other fluids with low surface tensions.
**Bubble point for LCR is with water; all others are with methanol.
†Methanol flow rates for Mitex and LCR are with water.
§Air flow rates for Mitex are the number of seconds for 100 cc of air to pass through 1 in^2 of membrane (Gurley test).
‡Autoclave at 121 °C for 30 minutes.
NA Not available

Ordering Information

All membranes are white and plain (not gridded), unless otherwise indicated. All Fluoropore membranes are laminated except as

	Filter Diameter			
	13 mm	25 mm	37 mm	47 mm
Fluoropore				
	100/pk	100/pk		100/pk
0.22 µm	FGLP 013 00	FGLP 025 00		FGLP 047 00
0.5 µm	FHLP 013 00	FHLP 025 00		FHLP 047 00
0.5 µm (Unlaminated)				FHUP 047 00
1 µm	FALP 013 00	FALP 025 00		FALP 047 00
3 µm		FSLW 025 00		FSLW 047 00
Mitex				
	100/pk	100/pk	100/pk	100/pk
5 µm	LSWP 013 00	LSWP 025 00	LSWP 037 00	LSWP 047 00
5 µm (Gridded)		LSWG 025 00		LSWG 047 00
10 µm	LCWP 013 00	LCWP 025 00		LCWP 047 00
10 µm (Gridded)		LCWG 025 00		LCWG 047 00
LCR				
	100/pk	100/pk		100/pk
0.5 µm	FHLC 013 00	FHLC 025 00		FHLC 047 00

*3 µm Fluoropore are 5 per pack

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		Mitex		LCR
FSLW	FHUP	LSWP	LCWP	FHLC
3	0.5	5	10	0.5
rophobic	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophilic
Yes	No	No	No	No
1.0	9.0	0.7	0.4	9.0
150	50	140	130	150
345	75	70	220	70
20	9	6	2	8
85	NA	65	65	80
130 121	260 121	260 121	260 121	130 121
Yes	Yes	Yes	Yes	Yes
0.5	0.5	0.5	0.5	0.5
<0.50	<0.50	<0.50	<0.50	<0.50

noted. All other membranes are not laminated.

90 mm	142 mm	293 mm
50/pk FGLP 090 50 FHLP 090 50	50/pk FGLP 142 50 FHLP 142 50	25/pk* FGLP 293 25 FHLP 293 25
FALP 090 50 FSLW 090 50	FALP 142 50 FSLW 142 50	FALP 293 25 FSLW 293 00*
25/pk LSWP 090 25	50/pk LSWP 142 50	25/pk LSWP 293 25
LCWP 090 25	LCWP 142 50	LCWP 293 25

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To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office:
In the U.S. and Canada, call toll-free **1-800-MILLIPORE (1-800-645-5476)**
In the U.S., Canada and Puerto Rico, fax orders to **1-800-MILLIFX (1-800-645-5439)**
Internet: **www.millipore.com**
E-mail: **tech_service@millipore.com**



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