

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

Specifications

Type	Fluoropore			Hydrophobic
	FGLP	FHLP	FALP	
Pore size (µm)	0.22	0.5	1.0	
Wettability*	Hydrophobic	Hydrophobic	Hydrophobic	Hydrophobic
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	130	130	130	
Autoclave‡	121	121	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	<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 in² 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 noted.

	13 mm	25 mm	37 mm	Filter Diameter 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

FSLW	FHUP	Mitex		LCR
		LSWP	LCWP	FHLC
3	0.5	5	10	0.5
Hydrophobic	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	260	260	260	130
121	121	121	121	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	50/pk	25/pk*
FGLP 090 50	FGLP 142 50	FGLP 293 25
FHLP 090 50	FHLP 142 50	FHLP 293 25
FALP 090 50	FALP 142 50	FALP 293 25
FSLW 090 50	FSLW 142 50	FSLW 293 00*
25/pk	50/pk	25/pk
LSWP 090 25	LSWP 142 50	LSWP 293 25
LCWP 090 25	LCWP 142 50	LCWP 293 25

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)**

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Millipore Worldwide

AUSTRALIA

Tel. 1 800 222 111
or (02) 9888 8999
Fax (02) 9878 0788

AUSTRIA

Tel. (01) 877-8926
Fax (01) 877-1654

BALTIC COUNTRIES

Tel. +358 9 804 5110
Fax +358 9 256 5660

BELGIUM AND LUXEMBOURG

Tel. +32 2 726 88 40
Fax +32 2 726 98 84

BRAZIL

Tel. (011) 5548-7011
Fax (011) 5548-7923

CANADA

Tel. 1-800-645-5476
Fax 1-800-645-5439

CHINA, PEOPLE'S REPUBLIC OF

Beijing:
Tel. (8610) 8519 1250
(8610) 6518 1058
Fax (8610) 8519 1255
Guangzhou:
Tel. (8620) 8755 4049
Fax (8620) 8752 0172
Hong Kong:
Tel. (852) 2803 9111
Fax (852) 2513 0313
Shanghai:
Tel. (8621) 5306 9100
Fax (8621) 5306 0838

CZECH REPUBLIC

Tel. 02-2051 3841
Fax 02-2051 4298

DENMARK

Tel. 70 10 00 23
Fax 70 10 13 14

EASTERN EUROPE, C.I.S., AFRICA, MIDDLE EAST AND GULF

Life Sciences Division:
Tel. +33 3 88 38 9536
Fax +33 3 88 38 9539
BioPharmaceutical Division:
Tel. +43 1 877-8926
Fax +43 1 877-1654
Laboratory Water Division:
Tel. +33 1 30 12 7000
Fax +33 1 30 12 7180

FINLAND

Tel. (09) 804 5110
Fax (09) 256 5660

FRANCE

Tel. 01 30 12 7000
Fax 01 30 12 7180

GERMANY

Tel. (06196) 494-0
Fax (06196) 43901

HUNGARY

Tel. 1-205 9784
Fax 1-205 9792

INDIA

Tel. (91) 80-839 46 57
Fax (91) 80-839 63 45

IRELAND

Life Sciences and Laboratory Water Divisions:
Tel. +44 1923 816375
Fax +44 1923 818297
BioPharmaceutical Division:
Tel. (021) 883 666
Fax (021) 883 048

ITALY

Vimodrone (Milano):
Tel. (02) 25.07.81
Fax (02) 26.50.324
Roma:
Tel. (06) 52.03.600
Fax (06) 52.95.735

JAPAN

Tel. (03) 5442-9711
Fax (03) 5442-9736 Life Sciences
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9734 Lab Water

KOREA

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Tel. 22-669 12 25
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Fax 22-663 70 33

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Tel. (787) 273-8495
Fax (787) 747-6553

SINGAPORE

Tel. (65) 842 1822
Fax (65) 842 4988

SPAIN AND PORTUGAL

Tel. +34 917 283 960
Fax +34 917 292 909

SWEDEN

Tel. 08-628 6960
Fax 08-628 6457

SWITZERLAND

Volketswil:
Tel. (01) 908-30-60
Fax (01) 908-30-80
Lausanne:
Tel. (021) 641 2550
Fax (021) 641 2551

TAIWAN

Taipei:
Tel. (886-2) 700-1742
Fax (886-2) 755-3267
Hsin Chu City:
Tel. (886-3) 571-0178
Fax (886-3) 572-9520

U.K.

Tel. 01923 816375
Fax 01923 818297

U.S.A.

Tel. (781) 533-6000
Fax (781) 533-3110

IN ALL OTHER COUNTRIES

Millipore Intertech (U.S.A.)
Tel. +1 (781) 533-8622
Fax +1 (781) 533-8630