Мембранные фильтры Mesh, Blotting, CA, RC, PP, PVDF, PTFE, MCE, PES, CN, Nylon

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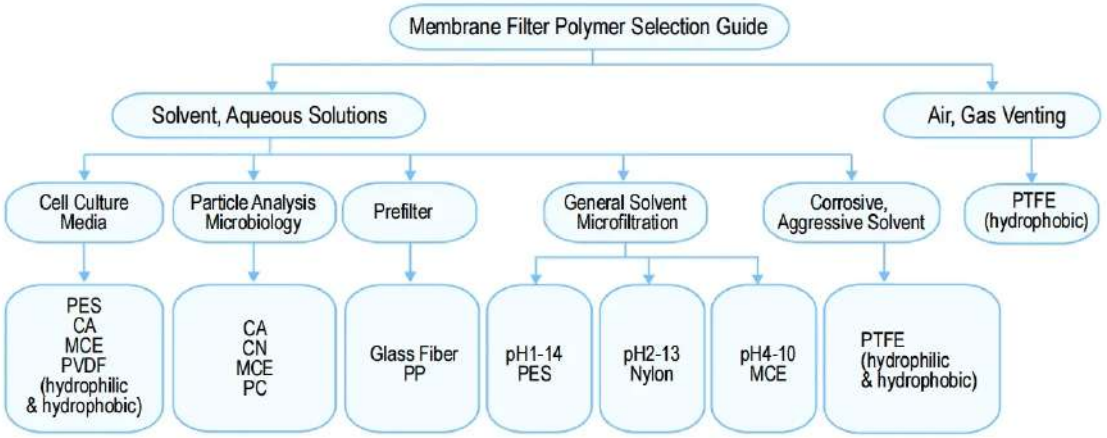
Membrane Selection Guide

Microlab Membrane Filters with an accurately controlled pore size distribution and higher strength and flexibility, which ensure reproducibility and consistency. Microlab offers a full line of membrane materials and media for all types of liquids, solvents or gases, including PES , MCE, Nylon, PVDF , PTFE , PP, GF, CA , MCE, CN and Mesh. Disc Membrane diameters range from 13 mm to 293 mm (other customized shapes also available). which are manufactured in a ISO 9001 certified facility. Most membranes can be sterilized and individually packaged if required.



Product Introduction

When it comes to laboratory filtration, choosing the right membrane is critical to obtaining accurate and reliable results. Microlab membrane filters are designed to meet the diverse needs of researchers and scientists, offering a variety of materials and pore sizes to suit a variety of applications.

Microlab membrane filters are engineered with a precisely controlled pore size distribution, ensuring consistent and repeatable filtration performance. This capability is critical for obtaining reliable results in research, quality control, and analytical testing. Additionally, the filter is designed for strength and flexibility, providing durability and tear resistance during handling and filtration.

One of the main advantages of Microlab membrane filters is the full range of membrane materials and media available for all types of liquids, solvents or gases. These materials

include PES, MCE, Nylon, PVDF, PTFE, PP, GF, CA, MCE, CN and Mesh to meet various filtration needs. Whether you are using aqueous solutions, organic solvents, or air/gas filtration, Microlab offers membrane materials to meet your specific requirements.

In addition to a variety of material options, Microlab membrane filters are available in disc membranes ranging in diameter from 13 mm to 293 mm, with the option of custom shapes to fit unique filtration setups. The filters are manufactured in an ISO 9001 certified factory ensuring strict quality control and compliance with international standards.

Most Microlab membrane filters can be sterilized and individually packaged, providing convenience and flexibility for a variety of laboratory scenarios. This feature is particularly beneficial for applications requiring sterile filtration, where maintaining the integrity of the filtration process is critical.

Microlab membrane filters provide a comprehensive solution for laboratory filtration needs, combining precise pore size distribution, diverse material selection and reliable manufacturing standards. By utilizing this membrane selection guide, researchers and scientists can confidently select the most appropriate membrane filter for their specific application, ensuring consistent and accurate results for their work.

Disc Membrane Part No. Matrix

Product Code	Diameter	Filter Media	Pore Size
M	47	NY	045
M	Φ13 φ25 Φ37 Φ47 Φ50 Φ90 Φ142 Φ293 Customized	Nylon=NY Polyethersulfone =PES Mixed Cellulose Ester=MCE Hydrophobic PTFE=PTB Hydrophilic PTFE=PTL Hydrophobic PVDF=PVB Hydrophilic PVDF= PVL Regenerated Cellulose= RC Polypropylene=PP Cellulose Acetate=CA Cellulose Nitrate=CN	0.1=010 0.22=022 0.45=045 0.65=065 0.8=080 1.0=100 2.0=200 3.0=300 5.0=500 8.0=800 10=1000

Roll Membrane Part No. Matrix

Product Code	Filter Media	Width	Pore Size
M	NY	280	045
M	Nylon=NY Polyethersulfone =PES Mixed Cellulose Ester=MCE Hydrophobic PTFE=PTB Hydrophilic PTFE=PTL Hydrophobic PVDF=PVB Hydrophilic PVDF= PVL Regenerated Cellulose= RC	270mm 280mm 300mm Customized	0.1=010 0.22=022 0.45=045 0.65=065 0.8=080 1.0=100 2.0=200 3.0=300

	Polypropylene=PP Cellulose Acetate=CA Cellulose Nitrate=CN		5.0=500 8.0=800 10=1000

Mesh Filter Part No. Matrix

Product Code	Diameter	Filter Media	Pore Size
ME	47	NY	045
ME	Φ13 φ25 Φ37 Φ47 Φ50 Φ90 Φ142 Φ293 Customized	Nylon Mesh=NY PP Mesh=PP	20=020 30=030 41=041 60=060 80=080 100=100 120=120 140=140 150=150 160=160 180=180

Mesh Filter

Microlab® Mesh Filter is made of PP or Nylon fiber, with large pore sizes than the Micro-filtraiton Membrane. Because of Good Chemical Compatibility, Mesh filters are ideal for removing and recovering different types of large suspended solids from the solutions.
Microlab® Nylon Mesh Filter is made by woven monofilament type PA6(1:1 Weaving Methods), characterized precise mesh opening, percent open area and mesh thickness, with a broad range of solvent. Nylon Mesh Filter with mesh openings ranging from 10 to 180μm, can be fully meet the most stringent requirements of our customers.
Microlab® Polypropylene (PP) Mesh Filters are ideally suited for general clarifying and prefiltration of solvents and contamination analysis. PP mesh filters are made of 100% virgin polypropylene. PP mesh filters also provide broad chemical compatibility.

TECHNICAL SPECIFICATIO

Filter Media	Features	Application
Nylon Mesh	Hydrophilic Compatible with a broad range of solvents	Collection of algae and cells Particle analysis Large particulate filtration Background filter for automated particle imaging systems Pre-filtration of solvents Paint monitoring
PP Mesh	Hydrophobic Broad chemical compatibility	Contamination analysis Large particle removal Collection of cells and protein precipitates

Filter Media	Mesh Opening (μm)	Open surface (%)	Thickness (μm)	Weight (g/m2)
Nylon Mesh	30	19	68	51
	41	23	70	42
	60	32	65	35
	80	36	90	43
	100	37	105	50
	120	44	85	44
	140	36	190	87
	180	41	178	78
PP Mesh	100	-	-	-
	150	-	-	-

Order Information

Part No	Diameter (mm)	Filter Media	Pore Size(μm)
ME47NY030	47	Nylon Mesh	30
ME47NY041	47	Nylon Mesh	41
ME47NY060	47	Nylon Mesh	60
ME47NY080	47	Nylon Mesh	80
ME47NY100	47	Nylon Mesh	100
ME47NY120	47	Nylon Mesh	120
ME47NY140	47	Nylon Mesh	140
ME47NY180	47	Nylon Mesh	180
ME47PP100	47	PP Mesh	100
ME47PP150	47	Pp Mesh	150

Blotting Membrane Filter

Microlab nitrocellulose membrane is composed of high-quality 100% pure nitrocellulose membranes. The rolls, sheets, are available in 0.22μm and 0.45μm with high surface area and uniformity. The nitrocellulose membranes have high binding properties for Western blot, dot-blot assays, and other protein or nucleic acid methods. Special formats have been developed for stripping and/or reprobing purposes.

TECHNICAL SPECIFICATION

Feature

- 100% pure nitrocellulose
- High Protein binding capacity
- High retention of small proteins
- Low background

Application

- Western Blotting
- Northern Blotting
- Southern Blotting
- Protein & immunoblotting

Technical Specification

Pore Size	Bubble Point With Water	Thickness	Flow Rate For Water	Wetting With Water
0.22μm	0.23-0.26(mpa)	115μm±20	>50(ml/(min.cm²bar)	<1(secs)
0.45μm	0.4-0.5(mpa)	115μm±20	>30(ml/(min.cm²bar)	<1(secs)

Order Information

Code	Description
M022NC30301	Transfer membrane Nitrocellulose for Blotting 300x3000mm, Pore:0.22μm
M045NC30301	Transfer membrane Nitrocellulose for Blotting 300x3000mm, Pore:0.45μm

CA Membrane

Microlab® Cellulose Acetate (CA) Filtration Membrane is unsupported, hydrophilic membrane .Composed of pure cellulose acetate, the membrane has dimensional stability and naturally low protein binding. This provides higher throughput than competitor offerings and reduces the amount of filter changes needed during filtration of proteinaceous solutions. It is ideal for use in filtration applications where maximal recovery of protein is critical. In addition,CA membrane combines good chemical resistance ranging from PH4-8, high flow rates and thermal stability, therefore is ideally suitable for pressure filtration devices, like syringe filters, disposable vacuum filter funnels etc.

Product Feature

• Lowest binding material available • Hydrophilic • High throughput	• Strength and dimensional stability • Uniform pore structure

Typical Application

Protein and enzyme filtration, sterilization Biological fluid filtration sterilization Tissue culture media sterilization	Diagnostic cytology Receptor binding studies

Technical Parameter

Membrane	CA （ Cellulose Acetate ）							
Wettability	Hydrophilic							
Color/ Filter surface	White/ Plain							
Membrane Format	Disc , Roll , Sheet , Strip , Customizable							
Thickness(μm)	100±15							
Max. Operating pressure	4.2bar@23°C							
PH	4-8							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1.0μm	1.2μm	5.0μm

Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	>5	>8	>18					
Bubble Point(Bar)	≥	≥3.4	≥2.7	≥1.9	≥1.1	≥0.8	≥0.6	≥0.4
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma Irradiation							

Order Information

Disc Membrane

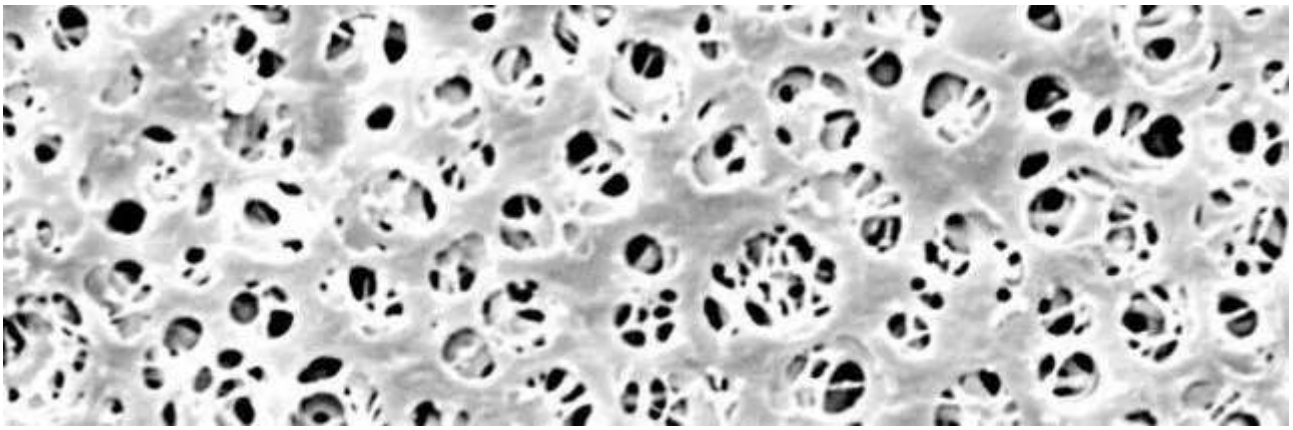
Part No.	Diameter(mm)	Sterilization	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13CA022	13	Non-sterile	0.22	200/PK	
M13CA045	13	Non-sterile	0.45	200/PK	
M25CA022	25	Non-sterile	0.22	200/PK	
M25CA045	25	Non-sterile	0.45	200/PK	
M47CA022	47	Non-sterile	0.22	100/PK	
M47CA045	47	Non-sterile	0.45	100/PK	
M47CA022S	47	Gamma Sterile	0.22	100/PK	
M47CA045S	47	Gamma Sterile	0.45	100/PK	
M90CA022	90	Non-sterile	0.22	100/PK	
M90CA045	90	Non-sterile	0.45	100/PK	
M142CA022	142	Non-sterile	0.22	50	
M142CA045	142	Non-sterile	0.45	50	

Roll Membrane

Part No.	Sizes（m）	Pore Size(μm)	Packing(roll/pk)	Online Price
MCA270010	0.27*100	0.1	1	
MCA270022	0.27*100	0.22	1	
MCA270045	0.27*100	0.45	1	
MCA270065	0.27*100	0.8	1	
MCA270080	0.27*100	1.0	1	
MCA270100	0.27*100	3.0	1	
MCA270120	0.27*100	5.0	1	
MCA270500	0.27*100	10	1	

RC Membrane

Microlab®Regenerated cellulose (RC) membrane is made of pure cellulose without adding any wetting agents and reinforced with nonwoven material. RC membrane is a very clean membrane features low extractables and ultra-ow non-specific binding characteristics. Naturally hydrophilic property and wide compatibility makes RC filter suitable for both organic and aqueous media applied in chromatography sample preparation and solvent preparation.In addition,the high-quality microporous structure helps to decrease impact on sample analysis at a minimally level.RC membrane have very low protein binding capability,which is also very good for tissue culture filtration and universal biological sample filtration.



Technical Specification

Features	Typical Application
Hydrophilic Ultra Low protein binding, high protein recovery Excellent chemical resistance Excellent Permeability of liquid Compatible with aqueous solutions and solvents. Universal Filter	Particle removal from solvents. Filtration for organic and aqueous media even mixture. Chromatography sample and solvent preparation Routine microbiological quality control

Technical Parameter

Membrane	Regenerated cellulose (RC)
Color/ Filter surface	White/ Plain
Wettability	Hydrophilic
Membrane Format	Disc，Roll， Sheet， Strip，Customizable

Thickness(μm)	120±10				
Max operation temperature(°C)	90				
PH	3-12				
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.8μm	1.0μm
Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥3.5	≥7.5	≥14	≥49	≥61
Bubble Point(Mpa)	0.36-0.48	0.28-0.38	0.18-0.29	0.09-0.12	0.7-0.9
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma Irradiation				

Order Information

Disc Membrane

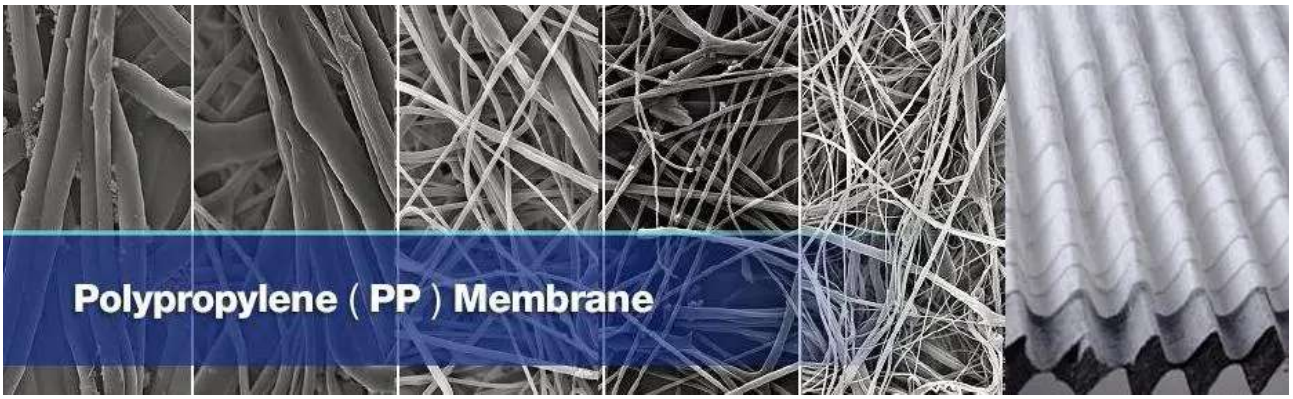
Part No.	Diameter(mm)	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13RC022	13	0.22	200/PK	
M13RC045	13	0.45	200/PK	
M25RC022	25	0.22	200/PK	
M25RC045	25	0.45	200/PK	
M47RC022	47	0.22	100/PK	
M47RC045	47	0.45	100/PK	
M90RC022	90	0.22	100/PK	
M90RC045	90	0.45	100/PK	
M142RC022	142	0.22	50	
M142RC045	142	0.45	50	
M293RC022	293	0.22	25	
M293RC045	293	0.45	25	

Roll Membrane

Part No.	Sizes（m）	Pore Size(μm)	Packing(roll/pk)	Online Price
MRC280010	0.28*100	0.1	1	
MRC280022	0.28*100	0.22	1	
MRC280045	0.28*100	0.45	1	
MRC280080	0.28*100	1.0	1	
MRC280100	0.28*100	2.0	1	
MRC280300	0.28*100	3.0	1	
MRC280500	0.28*100	5.0	1	

PP Membrane

Microlab® polypropylene (PP) microfiber filters is constructed of pure polypropylene microfiber, which belongs to a membrane filter material for depth filtration.Polypropylene membrane is natural hydrophobic, can withstand a variety of organic solvents, has excellent chemical stability and chemical compatibility Polypropylene membrane is tough and durable, not easy to break, non-toxic, and with uniform strength, widely used in lots of industries.



Technical Specification

Features	Typical Application
Good chemical compatibility ; Good hydrophobic properties; Low protein absorption Pre-filtration with highly dirt-holding capacity; Resistant to PH1-14; Resistant to temperature of 80°C;	Gas filtration Ink filtration Water Purification Aqueous and Organic solvent filtration Pre-filtration for APIS, blood products

Technical Parameter

Membrane	Polypropylene(PP)							
Color/ Filter surface	White/ Plain							
Membrane Format	Disc，Roll， Sheet， Strip，Customizable							
Thickness(μm)								
Max. Operating Temperature(°C)	80							
PH	1~14							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	1.0μm	3.0μm	5.0μm	10μm	
Flow rate 25°C △p=0.07Mpa (ml/min/cm²)								

Bubble Point(Bar)								
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma Irradiation							

Order Information

Disc Membrane

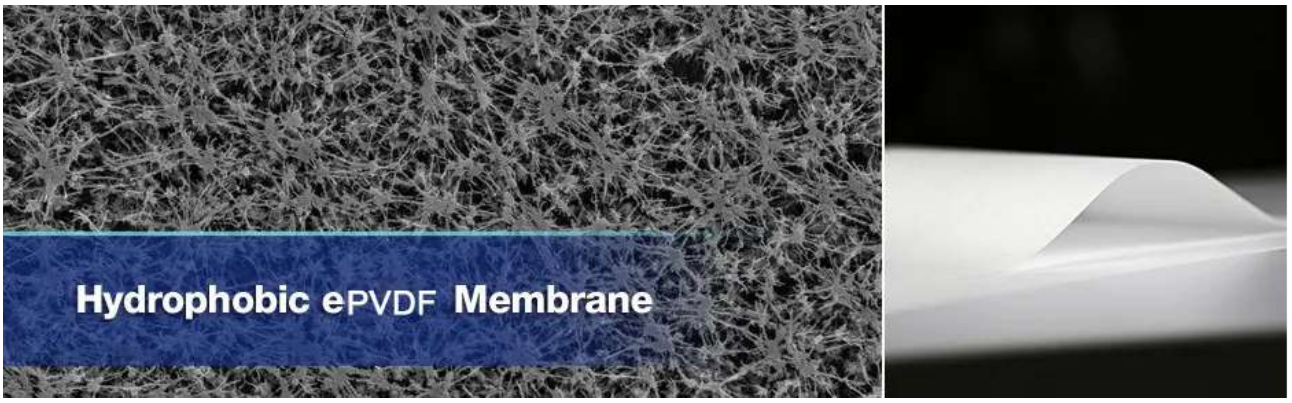
Part No.	Diameter(mm)	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13PP022	13	0.22	200/PK	
M13PP045	13	0.45	200/PK	
M25PP022	25	0.22	200/PK	
M25PP045	25	0.45	200/PK	
M47PP022	47	0.22	100/PK	
M47PP045	47	0.45	100/PK	
M90PP022	90	0.22	100/PK	
M90PP045	90	0.45	100/PK	
M142PP022	142	0.22	50	
M142PP045	142	0.45	50	
M293PP022	293	0.22	25	
M293PP045	293	0.45	25	

Roll Membrane

Part No.	Sizes (m)	Pore Size(μm)	Packing(roll/pk)	Online Price
MPP300010	0.30*500	0.1	1	
MPP300022	0.30*500	0.22	1	
MPP300045	0.30*500	0.45	1	
MPP300100	0.30*500	1.0	1	
MPP300300	0.30*500	3.0	1	
MPP300500	0.30*500	5.0	1	
MPP3001000	0.30*500	10	1	

PVDF Membrane

Microlab®Polyvinylidene Fluoride(PVDF) membrane is a kind of universal film, which is available in Hydrophobic or Hydrophilic Vision(hydrophilic treated), unsupported and PET supported vision to accommodate more industries.
Hydrophobic PVDF membrane with excellent hydrophobic ability,fast air flow rate and professional general sterile filtration capability,easy for assembling as unnecessary to distinguish the front and back side,can be ideally used as a PVDF venting membrane filter or air filtration/sterilization for medical devices or diagnosis assay.
Hydrophilic PVDF membrane with very low protein binding and high flow rate features, is ideal for clarification, pre-filtration and sterile filtration of fluids such as water, diagnostic reagent, buffer, cell culture medium, ophthalmic solution, blood products/serum,etc, offering efficient bacterial and particulate retention.
Supported PVDF Membrane (PET support layer) with better mechanical strength than Unsupported PVDF membrane. Our PVDF Membrane is widely used because of its outstanding properties including high thermal stability excellent mechanical strength, chemical resistance, which makes it has good resistance to organic solvents, corrosion, oxidation and withstand solutions of pH 2-10.



TECHNICAL SPECIFICATION

Features	Typical Application

Hydrophobic Excellent chemical resistance High porosity Excellent air permeability High strength and heat resistance Lot-to-lot consistency	Air/Gas purification and venting Clarifying acids, bases, and solvents HPLC and GC sample prep/clean up
Features	Typical Application
Hydrophilic Low protein binding Excellent chemical resistance High protein recovery Excellent Permeability of liquid Compatible with aqueous solutions and solvents.	Clarifying acids, bases, and solvents Clarifying aqueous solutions Clarifying mixture solutions Cell culture medium HPLC and GC sample prep/clean up

Technical Parameter

Membrane	Polytetrafluoroethylene (PTFE) with PP layer, Teflon							
Color/ Filter surface	White/ Plain							
Membrane Format	Disc，Roll， Sheet， Strip，Customizable							
Thickness(μm)	100±10 （Unsupported） 120±10（Supported）							
Max operation temperature(°C)	90							
PH	1-13							
Pure PVDF Membrane Filter（Unsupported）	Hydrophobic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1
		Alcohol Flow rate 25°C △p=0.07Mpa (ml/min/cm²)						
		Bubble Point(Bar)						
	Hydrophilic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1
		Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥6	≥11	≥30	≥60	≥100	≥
		Bubble Point(Mpa)	0.55-0.6	0.4-0.45	0.25-0.3	0.2-0.23	0.13-0.16	0.
PVDF Membrane Filter（Supported）	Hydrophobic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1
		Alcohol Flow rate 25°C △p=0.07Mpa (ml/min/cm²)						
		Bubble Point(Bar)						
	Hydrophilic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1
		Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥3.5	≥7.5	≥14	≥36	≥49	
		Bubble Point(Mpa)	0.36-0.48	0.28-0.38	0.18-0.29	0.12-0.19	0.09-0.12	0
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma lrradiation							

Order Information

Disc Membrane

Part No.	Wettability	Diameter(mm)	Pore Size(μm)	Packing(pcs/pk)	Online Price
Supported					

M13PVB022	Hydrophobic	13	0.22	200/PK	
M13PVB045		13	0.45	200/PK	
M25PVB022		25	0.22	200/PK	
M25PVB045		25	0.45	200/PK	
M47PVB022		47	0.22	100/PK	
M47PVB045		47	0.45	100/PK	
M90PVB022		90	0.22	100/PK	
M90PVB045		90	0.45	100/PK	
M142PVB022		142	0.22	50/PK	
M142PVB045		142	0.45	50/PK	
M293PVB022		293	0.22	25/PK	
M293PVB045		293	0.45	25/PK	
M13PVB022	Hydrophilic	13	0.22	200/PK	
M13PVB045		13	0.45	200/PK	
M25PVB022		25	0.22	200/PK	
M25PVB045		25	0.45	200/PK	
M47PVB022		47	0.22	100/PK	
M47PVB045		47	0.45	100/PK	
M90PVB022		90	0.22	100/PK	
M90PVB045		90	0.45	100/PK	
M142PVB022		142	0.22	50/PK	
M142PVB045		142	0.45	50/PK	
M293PVB022		293	0.22	25/PK	
M293PVB045		293	0.45	25/PK	
Unsupported					
M13PVB022U	Hydrophobic	13	0.22	200/PK	
M13PVB045U		13	0.45	200/PK	
M25PVB022U		25	0.22	200/PK	
M25PVB045U		25	0.45	200/PK	
M47PVB022U		47	0.22	100/PK	
M47PVB045U		47	0.45	100/PK	
M90PVB022U		90	0.22	100/PK	
M90PVB045U		90	0.45	100/PK	
M142PVB022U		142	0.22	50/PK	
M142PVB045U		142	0.45	50/PK	
M13PVB022U	Hydrophilic	13	0.22	200/PK	
M13PVB045U		13	0.45	200/PK	
M25PVB022U		25	0.22	200/PK	
M25PVB045U		25	0.45	200/PK	
M47PVB022U		47	0.22	100/PK	
M47PVB045U		47	0.45	100/PK	
M90PVB022U		90	0.22	100/PK	
M90PVB045U		90	0.45	100/PK	
M142PVB022U		142	0.22	50/PK	
M142PVB045U		142	0.45	50/PK	

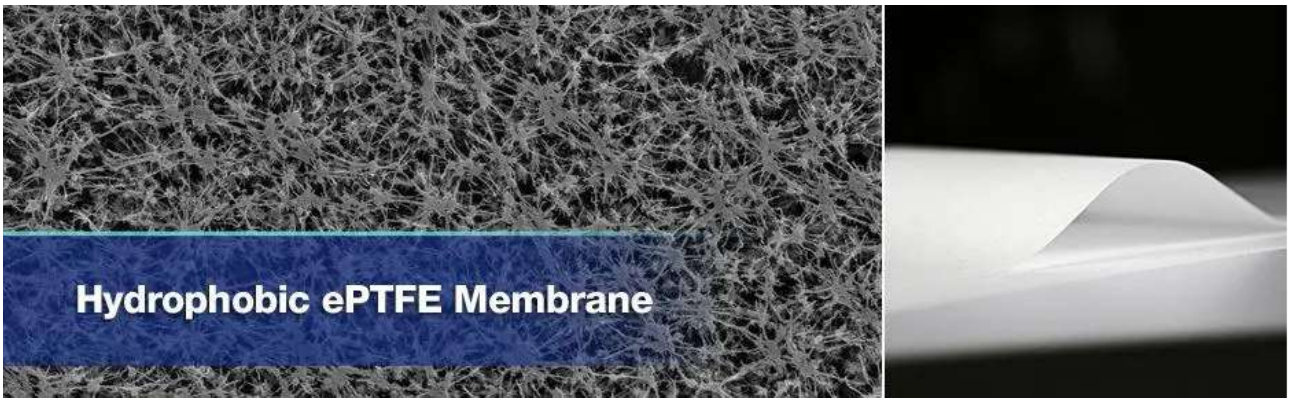
Roll Membrane

Part No.	Wettability	Sizes (m)	Pore Size(μm)	Packing(roll/pk)	Online Price
Supported					
MPVB280010	Hydrophobic	0.28*100	0.1	1	
MPVB280022		0.28*100	0.22	1	
MPVB280045		0.28*100	0.45	1	

MPVB280100		0.28*100	1.0	1	
MPVB280200		0.28*100	2.0	1	
MPVB280300		0.28*100	3.0	1	
MPVB280500		0.28*100	5.0	1	
MPVL280010	Hydrophilic	0.28*100	0.1	1	
MPVL280022		0.28*100	0.22	1	
MPVL280045		0.28*100	0.45	1	
MPVL280080		0.28*100	1.0	1	
MPVL280100		0.28*100	2.0	1	
MPVL280300		0.28*100	3.0	1	
MPVL280500		0.28*100	5.0	1	
Unsupported					
MPVB270010U	Hydrophobic	0.27*100	0.1	1	
MPVB270022U		0.27*100	0.22	1	
MPVB270045U		0.27*100	0.45	1	
MPVB270065U		0.27*100	0.65	1	
MPVB270080U		0.27*100	0.8	1	
MPVB270100U		0.27*100	1.0	1	
MPVL270010U	Hydrophilic	0.27*100	0.1	1	
MPVL270022U		0.27*100	0.22	1	
MPVL270045U		0.27*100	0.45	1	
MPVL270065U		0.27*100	0.65	1	
MPVL270080U		0.27*100	0.8	1	
MPVL270100U		0.27*100	1.0	1	

PTFE Membrane

Microlab® PTFE membrane is manufactured in a unique way where polytetrafluoroethylene (PTFE) is expanded both uniaxially and biaxially. It's supported by a polypropylene net laminated to the underside to improve handling characteristics. Both hydrophobic and hydrophilic PTFE Membranes are available.
Hydrophobic PTFE Membrane has good hydrophobility, excellent chemical resistance, high porosity, excellent air permeability. The membrane is widely used for Air Monitoring and clarifying acids, bases, and solvents, propellants, analyzing hydraulic fluids, isolating RNA and so on.
Hydrophilic PTFE membrane is treated base on Hydrophobic PTFE membrane. It's design as a Universal membrane for filtering both aqueous solutions and aggressive solvents, even mixture.



Technical Specification

Features	Typical Application
Strong Hydrophobic Excellent chemical resistance High porosity excellent air permeability High strength and heat resistance Lot-to-lot consistency	Air Monitoring Clarifying acids, bases, and solvents Clarifying propellants, analyzing hydraulic fluids Isolating RNA
Features	Typical Application
Hydrophilic Excellent chemical resistance High strength and heat resistance Excellent Permeability of liquid Compatible with aqueous solutions and solvents.	Clarifying acids, bases, and solvents Clarifying aqueous solutions Clarifying mixture solutions

Technical Parameter

Membrane	Polytetrafluoroethylene (PTFE) with PP layer, Teflon							
Color/ Filter surface	White/ Plain							
Membrane Format	Disc , Roll , Sheet , Strip , Customizable							
Thickness(μm)	160±10							
Max operation temperature	100							
PH	1~14							
Hydrophobic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	1.0μm	2.0μm	3.0μm	5.0μm
	Alcohol Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	2	4	12	20	40	60	80
	Air Flow Rate (m^3/m^2*hr @0.01Mpa,25°C)	≥150	≥600	≥800	≥1000	≥1500	≥1700	≥1900
	Bubble Point(Bar)	≥0.15	≥0.1	≥0.07	≥0.03	≥0.015	≥0.017	≥0.018
Hydrophilic	Pore Size(μm)	0.1μm	0.22μm	0.45μm	1.0μm	3.0μm	5.0μm	
	Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥1.7	≥5.0	≥6.7	≥13.3	≥	≥	≥
	Bubble Point(Bar)	≥0.16	≥0.12	≥0.07	≥0.035			
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma lrradiation							

Order Information

Disc Membrane

Part No.	Wettability	Diameter(mm)	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13PTB022	Hydrophobic	13	0.22	200/PK	
M13PTB045		13	0.45	200/PK	
M25PTB022		25	0.22	200/PK	
M25PTB045		25	0.45	200/PK	
M47PTB022		47	0.22	100/PK	
M47PTB045		47	0.45	100/PK	
M90PTB022		90	0.22	100/PK	
M90PTB045		90	0.45	100/PK	
M142PTB022		142	0.22	50	
M142PTB045		142	0.45	50	
M293PTB022		293	0.22	25	
M293PTB045		293	0.45	25	
M13PTL022	Hydrophilic	13	0.22	200/PK	
M13PTL045		13	0.45	200/PK	
M25PTL022		25	0.22	200/PK	
M25PTL045		25	0.45	200/PK	
M47PTL022		47	0.22	100/PK	
M47PTL045		47	0.45	100/PK	
M90PTL022		90	0.22	100/PK	
M90PTL045		90	0.45	100/PK	
M142PTL022		142	0.22	50	

M142PTL045		142	0.45	50	
M293PTL022		293	0.22	25	
M293PTL045		293	0.45	25	

Roll Membrane

Part No.	Wettability	Sizes (m)	Pore Size(μm)	Packing(roll/pk)	Online Price
MPTB270010	Hydrophobic	0.27*100	0.1	1	
MPTB270022		0.27*100	0.22	1	
MPTB270045		0.27*100	0.45	1	
MPTB270100		0.27*100	1.0	1	
MPTB270200		0.27*100	2.0	1	
MPTB270300		0.27*100	3.0	1	
MPTB270500		0.27*100	5.0	1	
MPTL270010	Hydrophilic	0.27*100	0.1	1	
MPTL270022		0.27*100	0.22	1	
MPTL270045		0.27*100	0.45	1	
MPTL270080		0.27*100	1.0	1	
MPTL270100		0.27*100	2.0	1	
MPTL270300		0.27*100	3.0	1	
MPTL270500		0.27*100	5.0	1	

MCE Membrane

Microlab® mixed cellulose ester (MCE) membrane filters are composed of cellulose acetate and cellulose nitrate. It's one of the most widely used membranes in analytical and research applications. MCE membrane filter is characterized by smoother and more uniform surface than pure nitrocellulose (NC) Membrane filter. Also, the color contrast provided by the filter surface facilitates particle detection and minimizes eye fatigue. Microlab® also supplies sterile gridded Membrane Filters with or without adsorbent pads.

Product Feature

High porosity	High degree of internal surface area for greater adsorption
High purity: Triton-free	Uniform pore structure, consistent thickness, smooth surface
High protein binding	Sterile options available for microbiological analysis
Good hydrophilicity, high throughput	Biologically inert with good thermal stability

Typical Application

HPLC sample preparation Aqueous and solvent filtration Sterile filtration or clarification of media and buffers Bio assays Microbiology analysis	Clarification of aqueous solutions, particle removal and analysis QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis.

Technical Parameter

Membrane	MCE（Mixed Cellulose Ester）							
Wettability	Hydrophilic							
Color/ Filter surface	White, Black, Grid/Plain							
Membrane Format	Disc，Roll， Sheet， Strip，Customizable							
Membrane Structure	Disc：MCE Membrane Roll：Strength Membrane with support							
Thickness(μm)	Disc： 80±10 Roll：100±10							
Max. Operating pressure	Disc： Roll：4.2bar@23°C							
PH	4-8							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.8μm	1.0μm	3.0μm	5.0μm	8.0μm
Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥7	≥10	≥34	≥124	≥153	≥260	≥330	≥480
Bubble Point(Mpa)	≥0.47	≥0.39	≥0.29	≥0.11	≥0.1	≥0.07	≥0.04	≥0.03
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma irradiation							

Order Information

Disc Membrane

Part No.	Diameter(mm)	Sterilization	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13MCE022	13	Non-sterile	0.22	200/PK	
M13MCE045	13	Non-sterile	0.45	200/PK	
M25MCE022	25	Non-sterile	0.22	200/PK	
M25MCE045	25	Non-sterile	0.45	200/PK	
M47MCE022	47	Non-sterile	0.22	100/PK	
M47MCE045	47	Non-sterile	0.45	100/PK	
M90MCE022	90	Non-sterile	0.22	100/PK	
M90MCE045	90	Non-sterile	0.45	100/PK	
M142MCE022	142	Non-sterile	0.22	50/pk	
M142MCE045	142	Non-sterile	0.45	50/pk	
M293MCE022	293	Non-sterile	0.22	25/pk	
M293MCE045	293	Non-sterile	0.45	25/pk	

Sterile Membrane

Part No.	Diameter (mm)	Color/Pad	Pore Size(μm)	Packing(pcs/pk)	Online Price
M47MCE022S	47	White	0.22	100/PK	
M47MCE045S	47	White	0.45	100/PK	
M47MCE022BS	47	Black	0.22	100/PK	
M47MCE045BS	47	Black	0.45	100/PK	
M47MCE022GWS	47	White/Grid	0.22	100/PK	
M47MCE045GWS	47	White/Grid	0.45	100/PK	

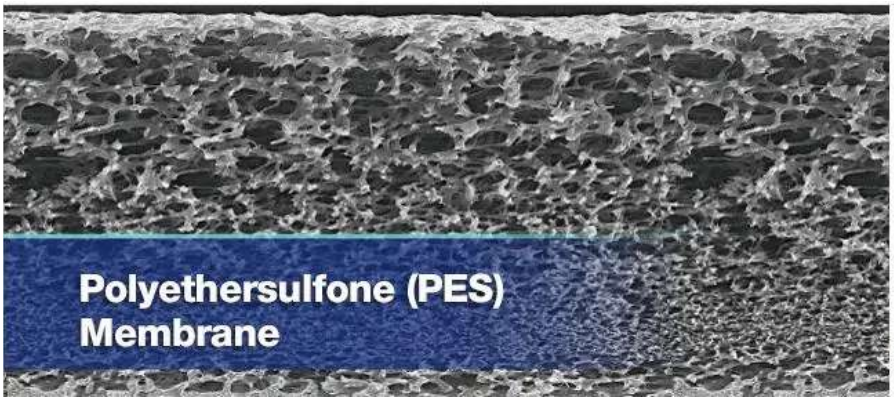
M47MCE022GBS	47	Black/ Grid	0.22	100/PK	
M47MCE045GBS	47	Black/ Grid	0.45	100/PK	
M47MCE022GWSP	47	White/Grid/ Pad	0.22	100/PK	
M47MCE045GWSP	47	White/Grid/ Pad	0.45	100/PK	
M47MCE022GBSP	47	Black/ Grid/ Pad	0.22	100/PK	
M47MCE045GBSP	47	Black/ Grid/ Pad	0.45	100/PK	

Roll Membrane

Part No.	Sizes (m)	Pore Size(μm)	Packing(roll/pk)	Online Price
MMCE280010	0.28*100	0.1	1	
MMCE280022	0.28*100	0.22	1	
MMCE280045	0.28*100	0.45	1	
MMCE280080	0.28*100	0.8	1	
MMCE280100	0.28*100	1.0	1	
MMCE280120	0.28*100	1.2	1	
MMCE280300	0.28*100	3.0	1	
MMCE280500	0.28*100	5.0	1	

PES Membrane

Microlab® PES Membrane (Polyethersulfone) is made of a modified polyethersulfone polymer cast.The optimized asymmetric structure, enhanced hydrophilicity and high porosity provides extraordinary high flow rate and contaminants retention capacity. The product uniformity results in consistent filtration performance. Its high mechanical strength supports most kinds of assembling technologies. It is designed to remove particulates during general filtration, and its low protein and drug binding characteristics make it ideally suited for life science application.



Product Feature

Inherently hydrophilic Superior thermal stability Low Drug and Protein Adsorption Low Extractables	Wide Range of Pore Sizes outstanding Flow Rates & Longer Life Lot-to-lot Consistency

Typical Application

Water filtration Especial chemical reagent filtration Liquid of high temperature filtration	Sterile filtering protein solution Tissue culture media filtration. Tissue culture additive filtration.

Technical Parameter

Membrane	PES (Polyethersulfone)
Wettability	Hydrophilic

Color/ Filter surface	White/ Plain							
Membrane Format	Disc，Roll， Sheet， Strip，Customizable							
Thickness(μm)	100±15							
Max. Operating pressure	4.2bar@23°C							
PH	6-13							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.65μm	0.8μm	1.0μm	1.2μm	5.0μm
Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	>5	>8	>18					
Bubble Point(Bar)	≥	≥3.4	≥2.7	≥1.9	≥1.1	≥0.8	≥0.6	≥0.4
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma Irradiation							
Endotoxin levels	<0.25 Eu/ml utilizing 400cm2/400 ml S.W.F.I per Limulus Amoebocyte Lysate(LAL) test							
Extractables	<1%(<0.015mg/cm2)							
BSA Protein Binding	<20 μg/cm2							

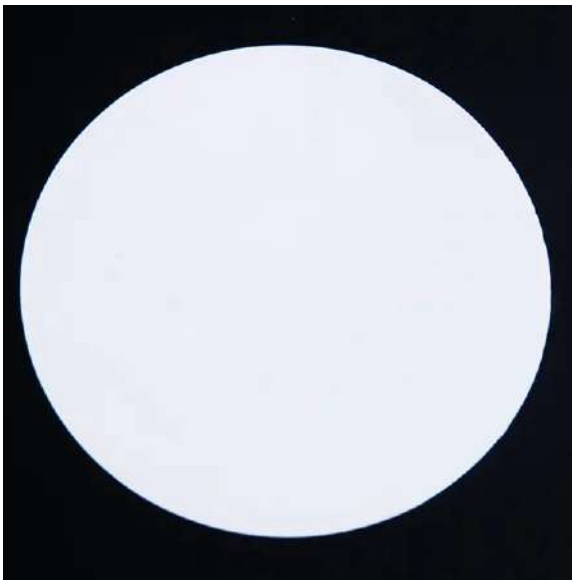
Order Information

Disc Membrane

Part No.	Diameter(mm)	Sterilization	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13PES022	13	Non-sterile	0.22	200/PK	
M13PES045	13	Non-sterile	0.45	200/PK	
M25PES022	25	Non-sterile	0.22	200/PK	
M25PES045	25	Non-sterile	0.45	200/PK	
M47PES022	47	Non-sterile	0.22	100/PK	
M47PES045	47	Non-sterile	0.45	100/PK	
M47PES022S	47	Gamma Sterile	0.22	100/PK	
M47PES045S	47	Gamma Sterile	0.45	100/PK	
M90PES022	90	Non-sterile	0.22	100/PK	
M90PES045	90	Non-sterile	0.45	100/PK	
M142PES022	142	Non-sterile	0.22	50	
M142PES045	142	Non-sterile	0.45	50	

Roll Membrane

Part No.	Sizes（m）	Pore Size(μm)	Packing(roll/pk)	Online Price
MPES270010	0.27*100	0.1	1	
MPES270022	0.27*100	0.22	1	
MPES270045	0.27*100	0.45	1	
MPES270065	0.27*100	0.8	1	
MPES270080	0.27*100	1.0	1	
MPES270100	0.27*100	3.0	1	
MPES270120	0.27*100	5.0	1	
MPES270500	0.27*100	10	1	



CN Membrane Filter

Microlab® Cellulose Nitrate membrane filters are indicated for many general laboratory applications where a membrane with a high non-specific adsorption is suitable. They are hydrophilic, have high flow rates thanks to their symmetric structure and are compatible with aqueous solutions (pH 4 to 8), hydrocarbons and several other organic solvents. The cellulose nitrate membranes are available in different pore sizes from 0.2 µm to 8 µm.

Product Feature

Hydrophilic

High flow rates

Aqueous and organic solvent compatible

For particle retention and cell capture in aqueous solutions or air

Typical Application

HPLC sample preparation Aqueous and solvent filtration Sterile filtration or clarification of media and buffers Microbiology analysis	Clarification of aqueous solutions, particle removal and analysis QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis.

Technical Parameter

Membrane	CN （ Cellulose Nitrate ）							
Wettability	Hydrophilic							
Color/ Filter surface	White, Grid/Plain							
Membrane Format	Disc ， Sheet ， Customizable							
Membrane Structure	Disc：CN Membrane							
Thickness(μm)	Disc： 80±10							
Max. Operating pressure	Disc：							
PH	4-8							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.8μm	1.0μm	3.0μm	5.0μm	8.0μm
Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	≥7	≥10	≥34	≥124	≥153	≥260	≥330	≥480
Bubble Point(Mpa)	≥0.47	≥0.39	≥0.29	≥0.11	≥0.1	≥0.07	≥0.04	≥0.03
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma irradiation							

Order Information

Disc Membrane：

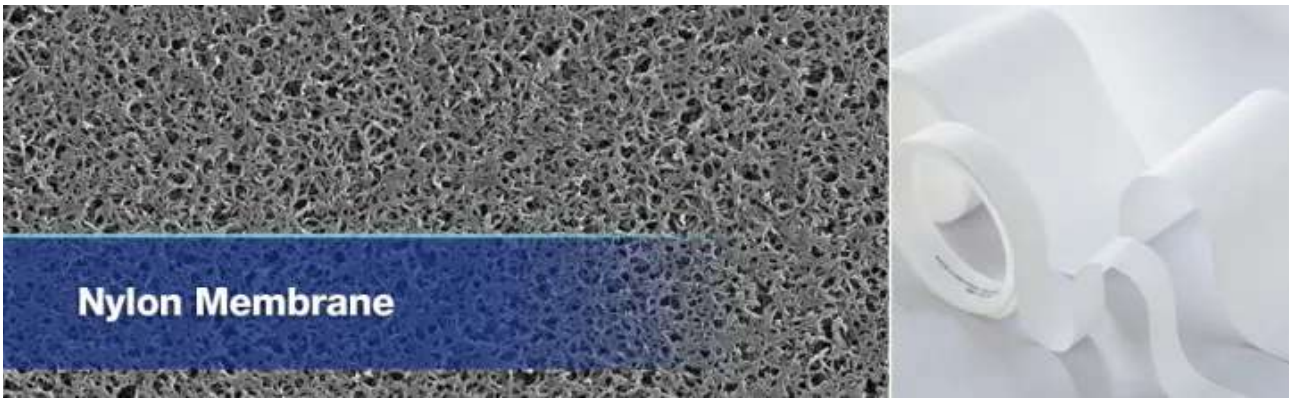
Part No.	Diameter(mm)	Sterilization	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13CN022	13	Non-sterile	0.22	200/PK	
M13CN045	13	Non-sterile	0.45	200/PK	
M25CN022	25	Non-sterile	0.22	200/PK	
M25CN045	25	Non-sterile	0.45	200/PK	
M47CN022	47	Non-sterile	0.22	100/PK	
M47CN045	47	Non-sterile	0.45	100/PK	
M90CN022	90	Non-sterile	0.22	100/PK	
M90CN045	90	Non-sterile	0.45	100/PK	
M142CN022	142	Non-sterile	0.22	50/pk	
M142CN045	142	Non-sterile	0.45	50/pk	
M293CN022	293	Non-sterile	0.22	25/pk	
M293CN045	293	Non-sterile	0.45	25/pk	

Sterile Membrane

Part No.	Diameter (mm)	Color/Pad	Pore Size(μm)	Packing(pcs/pk)	Online Price
M47CN022S	47	White	0.22	100/PK	
M47CN045S	47	White	0.45	100/PK	
M47CN022GWS	47	White/Grid	0.22	100/PK	
M47CN045GWS	47	White/Grid	0.45	100/PK	
M47CN022GWSP	47	White/Grid/ Pad	0.22	100/PK	
M47CN045GWSP	47	White/Grid/ Pad	0.45	100/PK	

Nylon Membrane

Microlab® Nylon membrane filter is a supported, naturally hydrophilic membrane designed to wet out evenly and retain its superior strength during use in general filtration or medical assays, eliminating the need for wetting agents that could be extracted when filtering aqueous solutions. Nylon membrane filters are flexible, durable and tear resistant, and can be autoclaved at 135º C.High-quality nylon membrane filters are suitable for filtering aqueous solutions and most organic solvents. Nylon membrane filters are suitable for a wide range of biological preparations and can be used where other membranes are unsuitable or difficult to use.



Product Feature

Hydrophilic	Binds proteins, DNA and RNA
Low extractable	High strength and heat resistance
High surface area	Ideal for use in general filtration or medical assays
High protein binding capacity	Compatible with aqueous and alcoholic solutions and solvents; suitable for HPLC
Lot-to-lot consistency	

Typical Application

Bacterial and Particulate removal	Drug filtration
HPLC Solvent and Sample Filtration	Gene probe, Protein and Lateral flow assays
Diagnostic kit manufacturing	Serum cholesterol
Biosensors	IV filters
Blood glucose	

Why Cooperate With Us?

Our laboratory nylon membrane filter products are made of high-quality nylon material with excellent chemical stability and durability. Nylon membrane filters are suitable for rapid filtration of various laboratory samples and can effectively remove particles, microorganisms and other impurities to ensure the purity and reliability of samples. Our nylon membrane filters have uniform pore size distribution and high filtration efficiency, which can meet the high requirements of laboratories for sample processing. The product design complies with laboratory standards and is easy to operate. It is suitable for various laboratory applications and provides reliable support for laboratory work.

Technical Parameter

Membrane	Hydrophilic Nylon66							
Color/ Filter surface	White/ Plain							
Membrane Format	Disc，Roll， Sheet， Strip，Customizable							
Thickness(μm)	120±10							
Max. Operating pressure	75							
PH	6~13							
Pore Size(μm)	0.1μm	0.22μm	0.45μm	0.8μm	1.0μm	3.0μm	5.0μm	10μm
Water Flow rate 25°C △p=0.07Mpa (ml/min/cm²)	2	4	12	20	40	60	80	200
Bubble Point(Bar)	≥3.5	≥2.8	≥1.8	≥0.8	≥0.6	≥0.4	≥0.3	≥0.1
Sterilization Compatibility	Autoclave, Ethylene Oxide,E-Beam, Gamma Irradiation							

Order Information

Disc Membrane

Part No.	Diameter(mm)	Pore Size(μm)	Packing(pcs/pk)	Online Price
M13NY022	13	0.22	200/PK	
M13NY045	13	0.45	200/PK	
M25NY022	25	0.22	200/PK	
M25NY045	25	0.45	200/PK	
M47NY022	47	0.22	100/PK	
M47NY045	47	0.45	100/PK	
M90NY022	90	0.22	100/PK	
M90NY045	90	0.45	100/PK	
M142NY022	142	0.22	50	
M142NY045	142	0.45	50	
M293NY022	293	0.22	25	
M293NY045	293	0.45	25	

Roll Membrane

Part No.	Sizes（m）	Pore Size(μm)	Packing(roll/pk)	Online Price
MNY280010	0.28*100	0.1	1	

MNY280022	0.28*100	0.22	1	
MNY280045	0.28*100	0.45	1	
MNY280080	0.28*100	0.8	1	
MNY280100	0.28*100	1.0	1	
MNY280300	0.28*100	3.0	1	
MNY280500	0.28*100	5.0	1	
MNY2801000	0.28*100	10	1	

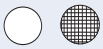
Membrane Filters Guide

Microlab Scientific supplies the Membrane Filters with an accurate controlled pore size distribution and higher strength and flexibility,which ensure reproducibility and consistency.The Filter media including Nylon, PES,PVDF,PTFE,MCE,CA,PP and so on.

Microlab Scientific offers membrane in rolls and discs.The Width ranges from 260-300mm and the Diameter ranges from 13mm to 293mm.

- Microlab Scientific Membrane Filters.
- Professional for Analytical Filtrations.
- Easy Choice leads to Perfect Solutions.

Membrane Specifications Chart

Membrane	Pore Size Range (μm)	Diameter Range (mm)	Surface Colors	Surface Type (plain/gridded)	Sterile Or Not
MCE (Mixed cellulose)	0.1 - 5.0	13-293	White/Black		Nonsterile or Sterile
CA(Cellulose Acetate)	0.2 - 5.0	13-293	White		Nonsterile
PES(Polyethersulfone)	0.1-1.0	13-142	White		Nonsterile or Sterile
Hydrophilic PTFE	0.1-5.0	13-142	White		Nonsterile
Hydrophobic PTFE	0.1-5.0	13-142	White		Nonsterile
PP(polypropylene)	0.1-50	13-293	White		Nonsterile
Nylon(polyamide)	0.1-5.0	13-293	White		Nonsterile
PVDF(Polyvinylidene Fluoride)	0.2-5.0	13-142	White		Nonsterile

Membrane Filter application chart

Membrane Type	Recommended Application
Nylon	Hydrophilic and commonly used for aqueous or mixed organic sample prep and HPLC, GC or dissolution sample analysis, such as bases, most HPLC solvents, alcohols, aromatic hydrocarbons, and THF. Not for strong acids, strong bases and high protein recovery. Excellent flow rates with most sample matrices and extremely low in extractables.
PTFE	Hydrophobic and perfect for organic solvent-based, acidic or basic samples and all solvents, such as aggressive solvents, strong acids and bases, alcohols, and aromatics. Chemically resistant to all solvents and has an excellent thermal stability to high temperature fluids. It can be used with aqueous samples after pre-wetting with small amount of alcohol and then flushing with water.
PVDF	Hydrophilic and excellent for HPLC and GC sample prep/clean up and protein-based samples due to broad chemical compatibility, the nature of a low protein binder, and low UV adsorbing extractables. It can be used for alcohols, weak acids, proteins, peptides and other biomolecules for high protein recovery .
PES	Hydrophilic and excellent for tissue culture, media, and buffers due to very low protein and nucleic acid binding and excellent flow rates. The PES membrane shows better chemical resistance than cellulose acetate. It is widely used in clinical/toxicology, ion chromatography, ICP-MS, AAS, and capillary electrophoresis for strong bases, alcohols, proteins, peptides.
MCE	Hydrophilic and ideal for aqueous samples filtration that need higher flow rates and larger volume, including clarification or sterilization of aqueous solutions, particulate analysis and removal, air monitoring, microbial analysis, cytology, HPLC samples prep/clean up, virus concentration, biological assays, food microbiology (enumeration of E. coli in foods), bacteriological studies.

Membrane Filter

Nylon

Introduction

Hydrophilic and commonly used for aqueous or mixed organic sample prep and HPLC,GC or dissolution sample analysis,such as bases,most HPLC solvents,alcohols,aromatic hydrocarbons, and THF.Not for strong acids, strong bases and high protein recovery.Excellent flow rates with most sample matrices and extremely low in extractables.

Product Specifications

Material	Nylon （Polyamides） Membrane Filter								
Wettability	Hydrophilic		PH		6~13		Thickness		100±15
Diameter	13mm, 25mm, 47mm, 90mm, 142mm, 293mm								
Pore Size(μm)	0.1	0.22	0.45	0.65	0.8	1.0	3.0	5.0	10
Minimum Bubble Point (Mpa)	0.36	0.28	0.18	0.12	0.09	0.07	0.045	0.025	0.01
Typical Flow Rate (mL/min/cm²)	⩾3..5	⩾7.5	⩾14	⩾36	⩾49	⩾61	⩾108	⩾162	⩾278

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）					
	13	25	47	90	142	293
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk	25pcs/pk
0.1	M13NY010	M25NY010	M47NY010	M90NY010	M142NY010	M293NY010
0.22	M13NY022	M25NY022	M47NY022	M90NY022	M142NY022	M293NY022
0.45	M13NY045	M25NY045	M47NY045	M90NY045	M142NY045	M293NY045
0.65	M13NY065	M25NY065	M47NY065	M90NY065	M142NY065	M293NY065
0.8	M13NY080	M25NY080	M47NY080	M90NY080	M142NY080	M293NY080
1.0	M13NY100	M25NY100	M47NY100	M90NY100	M142NY100	M293NY100
3.0	M13NY300	M25NY300	M47NY300	M90NY300	M142NY300	M293NY300
5.0	M13NY500	M25NY500	M47NY500	M90NY500	M142NY500	M293NY500
10.0	M13NY1000	M25NY1000	M47NY1000	M90NY1000	M142NY1000	M293NY1000

Membrane Filter

Lab Filtration

CA

Introduction

High flow rates and thermal stability with very low adsorption characteristics and are therefore excellently suited for use in pressure filtration devices. The membrane with 0.2μm is the filter of choice for sterile filtration of aqueous solutions,such as nutrient media, buffers and sera.The results of publications on adsorption are difficult to correlate,as mostly different test substances,conditions and detection methods were used.

Product Specifications

Material	CA (Cellulose Acetate)Membrane Filter								
Wettability	Hydrophilic		PH		6-13		Thickness		110±10
Diameter	13mm, 25mm, 47mm, 90mm, 142mm, 293mm								
Pore Size(μm)	0.1	0.22	0.45	0.8	1.0	1.2	3.0	5.0	8.0
Minimum Bubble Point (Mpa)	0.56	0.28	0.18	0.095	0.08	0.06	0.05	0.04	0.02
Typical Flow Rate, (mL/min/cm²)	⩾8	⩾25	⩾40	⩾80	⩾153	⩾220	⩾290	⩾400	⩾600

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）					
	13	25	47	90	142	293
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk	25pcs/pk
0.1	M13CA010	M25CA010	M47CA010	M90CA010	M142CA010	M293CA010
0.22	M13CA022	M25CA022	M47CA022	M90CA022	M142CA022	M293CA022
0.45	M13CA045	M25CA045	M47CA045	M90CA045	M142CA045	M293CA045
0.8	M13CA080	M25CA080	M47CA080	M90CA080	M142CA080	M293CA080
1.0	M13CA100	M25CA100	M47CA100	M90CA100	M142CA100	M293CA100
1.2	M13CA120	M25CA120	M47CA120	M90CA120	M142CA120	M293CA120
3.0	M13CA300	M25CA300	M47CA300	M90CA300	M142CA300	M293CA300
5.0	M13CA500	M25CA500	M47CA500	M90CA500	M142CA500	M293CA500
8.0	M13CA800	M25CA800	M47CA800	M90CA800	M142CA800	M293CA800

Membrane Filter

Hydrophilic PTFE

Introduction

Hydrophilic and ideal for aqueous samples filtration that need higher flow rates and larger volume, including clarification or sterilization of aqueous solutions,particulate analysis and removal,air monitoring,microbial analysis cytology,HPLC samples prep/clean up,virus concentration,biological assays, food microbiology (enumeration of E.coli in foods),bacteriological studies.

Product Specifications

Material	PTFE (Teflon) Membrane Filter with PP Support layer				
Wettability	Hydrophilic	PH	1-14	Thickness	160±10
Diameter	13mm, 25mm, 47mm, 90mm, 142mm				
Pore Size(μm)	0.1	0.22	0.45	1.0	
Minimum Bubble Point (Mpa)	0.16	0.12	0.07	0.035	
Typical Flow Rate, (mL/min/cm²)	⩾1.7	⩾5.0	⩾6.7	⩾13.3	

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）				
	13	25	47	90	142
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk
0.1	M13PTL010	M25PTL010	M47PTL010	M90PTL010	M142PTL010
0.22	M13PTL022	M25PTL022	M47PTL022	M90PTL022	M142PTL022
0.45	M13PTL045	M25PTL045	M47PTL045	M90PTL045	M142PTL045
1.0	M13PTL100	M25PTL100	M47PTL100	M90PTL100	M142PTL100

Membrane Filter

Lab Filtration

PTFE

Introduction

Hydrophobic and perfect for organic solvent-based,acidic or basic samples and all solvents,such as aggressive solvents,strong acids and bases, alcohols,and aromatics.Chemically resistant to all solvents and has an excellent thermal stability to high temperature fluids. It can be used with aqueous samples after pre-wetting with small amount of alcohol and then flushing with water.

Product Specifications

Material	PTFE (Teflon) Membrane Filter with PP Support layer						
Wettability	Hydrophobic	PH	1-14	Thickness	160±10		
Diameter	13mm, 25mm, 37mm, 47mm, 90mm, 142mm						
Pore Size（μm）	0.1	0.22	0.45	1.0	2.0	30	5.0
Minimum Bubble Point (Mpa)	0.15	0.1	0.07	0.03	0.015	0.017	0.018
Air Flow Rate (m^3/m^2*hr@ 0.01Mpa ,25℃)	⩾150	⩾600	⩾800	⩾1000	⩾1500	⩾1700	⩾1900

Order information

Pore Szie (μm)	Diameter（mm）					
	13	25	37	47	90	142
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk	25pcs/pk
0.1	M13PTB010	M25PTB010	M37PTB010	M47PTB010	M90PTB010	M142PTB010
0.22	M13PTB022	M25PTB022	M37PTB022	M47PTB022	M90PTB022	M142PTB022
0.45	M13PTB045	M25PTB045	M37PTB045	M47PTB045	M90PTB045	M142PTB045
1.0	M13PTB100	M25PTB100	M37PTB100	M47PTB100	M90PTB100	M142PTB100
2.0	M13PTB200	M25PTB200	M37PTB200	M47PTB200	M90PTB200	M142PTB200
3.0	M13PTB300	M25PTB300	M37PTB300	M47PTB300	M90PTB300	M142PTB300
5.0	M13PTB500	M25PTB500	M37PTB500	M47PTB500	M90PTB500	M142PTB500

Membrane Filter

MCE

Introduction

Hydrophilic and ideal for aqueous samples filtration that need higher flow rates and larger volume,including clarification or sterilization of aqueous solutions,particulate analysis and removal,air monitoring,microbial analysis,cytology,HPLC samples prep/clean up,virus concentration, biological assays,food microbiology (enumeration of E.coli in foods), bacteriological studies.

Product Specifications

Material	MCE (Mixed Cellulose)Membrane Filter								
Wettability	Hydrophilic		PH	6~13		Thickness	120±10		
Diameter	13mm, 25mm, 47mm, 90mm, 142mm, 293mm								
Pore Size(μm)	0.1	0.22	0.45	0.8	1.0	1.2	3.0	5.0	8.0
Minimum Bubble Point (Mpa)	0.47	0.392	0.294	0.113	0.098	0.083	0.074	0.044	0.034
Typical Flow Rate, (mL/min/cm²)	⩾7	⩾10	⩾34	⩾124	⩾153	⩾182	⩾260	⩾330	⩾48

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）					
	13	25	47	90	142	293
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk	25pcs/pk
0.1	M13MCE010	M25MCE010	M47MCE010	M90MCE010	M142MCE010	M293MCE010
0.22	M13MCE022	M25MCE022	M47MCE022	M90MCE022	M142MCE022	M293MCE022
0.45	M13MCE045	M25MCE045	M47MCE045	M90MCE045	M142MCE045	M293MCE045
0.8	M13MCE080	M25MCE080	M47MCE080	M90MCE080	M142MCE080	M293MCE080
1.0	M13MCE100	M25MCE100	M47MCE100	M90MCE100	M142MCE100	M293MCE100
1.2	M13MCE120	M25MCE120	M47MCE120	M90MCE120	M142MCE120	M293MCE120
3.0	M13MCE300	M25MCE300	M47MCE300	M90MCE300	M142MCE300	M293MCE300
5.0	M13MCE500	M25MCE500	M47MCE500	M90MCE500	M142MCE500	M293MCE500
8.0	M13MCE800	M25MCE800	M47MCE800	M90MCE800	M142MCE800	M293MCE800

Membrane Filter

Lab Filtration

Hydrophilic PVDF

Introduction

Hydrophilic PVDF is universal film, due to its broad chemical compatibility, PVDF is Excellent for HPLC and GC sample prep/clean up. It's feature is low protein binding and low UV It suitable for filtering both Organic and Aqueous Solutions. Especially for high protein recovery of other biomolecules.

Product Specifications

Material	PVDF (Polyvinylidene Fluoride) Membrane Filter				
Wettability	Hydrophilic	PH	1-13	Thickness	100±10
Diameter	13mm, 25mm, 47mm, 90mm, 142mm				
Pore Size(μm)	0.1		0.22		0.45
Minimum Bubble Point (Mpa)	0.2		0.1		0.04
Typical Flow Rate, (mL/min/cm²)	⩾5		⩾8.5		⩾18

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）				
	13	25	47	90	142
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk
0.1	M13PVL010	M25PVL010	M47PVL010	M90PVL010	M142PVL010
0.22	M13PVL022	M25PVL022	M47PVL022	M90PVL022	M142PVL022
0.45	M13PVL045	M25PVL045	M47PVL045	M90PVL045	M142PVL045

Membrane Filter

PVDF

Introduction

PVDF can be supplied in hydrophobic types. Due to broad chemical compatibility, PVDF is excellent for HPLC and GC sample prep/clean up.And also suitable for organic solvent filtration.

Product Specifications

Material	PVDF (Polyvinylidene Fluoride) Membrane Filter				
Wettability	Hydrophobic	PH	1-13	Thickness	100±10
Diameter	13mm, 25mm, 47mm, 90mm, 142mm				
Pore Size(μm)	0.1	0.22	0.45	3.0	5.0
Minimum Bubble Point (Mpa)	0.14	0.1	0.05	0.018	0.01
Typical Flow Rate, (mL/min/cm²)	⩾5	⩾8.5	⩾18	⩾122	⩾244

PS: Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）				
	13	25	47	90	142
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk
0.1	M13PVB010	M25PVB010	M47PVB010	M90PVB010	M142PVB010
0.22	M13PVB022	M25PVB022	M47PVB022	M90PVB022	M142PVB022
0.45	M13PVB045	M25PVB045	M47PVB045	M90PVB045	M142PVB045
3.0	M13PVB300	M25PVB300	M47PVB300	M90PVB300	M142PVB300
5.0	M13PVB500	M25PVB500	M47PVB500	M90PVB500	M142PVB500

Membrane Filter

Lab Filtration

PES

Introduction

Hydrophilic and excellent for tissue culture,media,and buffers due to very low protein and nucleic acid binding and excellent flow rates.The PES membrane shows better chemical resistance than cellulose acetate. It is widely used in clinical/toxicology,ion chromatography,ICP-MS,AAS,and capillary electrophoresis for strong bases,alcohols,proteins,peptides.

Product Specifications

Material	PES （Polyether Sulfone）Membrane Filter				
Wettability	Hydrophilic	PH	6~13	Thickness	120±30
Diameter	13mm, 25mm, 47mm, 90mm, 142mm, 293mm				
Pore Size（μm）	0.1		0.22		0.45
Minimum Bubble Point (Mpa)	0.039		0.024		0.02
Typical Flow Rate, (mL/min/cm²)	⩾6		⩾12		⩾30

PS:Typical flow rate test under the pressure 10psi (0.7kg/cm²).

Order information

Pore Szie (μm)	Diameter（mm）				
	13	25	47	90	142
	400pcs/pk	200pcs/pk	100pcs/pk	100pcs/pk	50pcs/pk
0.1	M13PES010	M25PES010	M47PES010	M90PES010	M142PES010
0.22	M13PES022	M25PES022	M47PES022	M90PES022	M142PES022
0.45	M13PES045	M25PES045	M47PES045	M90PES045	M142PES045

Roll Membrane

Microlab Scientific supplys the Roll Membrane Filters with an accurately controlled pore size distribution and higher strength and flexibility,which ensure reproducibility and consistency.Nylon,PES,PVDF,PTFE,MCE,CA, and so on are available. The width is ranges from 260-300mm. All the Membrane rolls are produced and packed with good manufacturing practices.

Nylon

Introduction

- Hydrophilic property.
- No need to moist beforehand.
- Strong tenacity and adsorbability.
- Applicable PH value 3-12.

Applications

- Electric semiconductor industrial water filtration.
- Chemicals filtration.
- Beverage filtration.

Technical Specification

Membrane	Hydrophilic Nylon66	
Color	White	
Filter Surface	Plain	
Thickness(μm)	120±20	
Pore Size(μm)	0.1, 0.22, 0.45, 1.0, 3.0, 5.0	
Maximum Operating Pressure	75	
PH	6~13	
Flow Rate(25 ℃ Δ p = 0.07 Mpa (mL/min/cm2)	0.22 μm	7.5
	0.45 μm	14
Bubble Point	0.22 μm	0.28Mpa
	0.45 μm	0.18Mpa

Order Information

Catalog No.	Description
MNY280022	Nylon membrane, pore size:0.22μm，280mm*100m
MNY280045	Nylon membrane, pore size:0.45μm，280mm*100m

Roll Membrane

CA

Introduction

- Lowest protein binding.
- Uniform aperture.
- Hydrophilic property.
- Applicable PH value 4-8.

Application

- Aqueous protein solutions as low protein binding.
- Ground water filtration as Nitrate-free.

Technical Specification

Membrane	CA	
Color	White	
Filter Surface	Plain	
Thickness(μm)	150±20	
Width(mm)	280mm	
Pore Size(μm)	0.1, 0.22, 0.45,1.0,3.0,5.0	
PH	1~14	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃ ; 1.5 bar @ 85℃	
Flow Rate	0.22 μm	⩾6 mL/min/cm^2 at 1 bar
	0.45 μm	⩾30 mL/min/cm^2 at 1 bar
Integrity Test-60% IPA/ water bubble point at 23 ℃	0.22 μm	⩾1000 mbar
	0.45 μm	⩾600 mbar

Ordering Information

Catalog No.	Description
MCA280022	Hydrophilic CA membrane, pore size:0.22μm，280mm*100m
MCA280045	Hydrophilic CA membrane, pore size:0.45μm，280mm*100m

Roll Membrane

Hydrophilic PTFE

Introduction

- Broad chemical compatibility.
- High throughputs and high flow rates.
- Good heat-resistance.
- Hydrophilic membrane suitable for filtering both aqueous solutions and organic solvents even mixed soltions.

Applications

- Organic solvent filtration.
- Filtration for harsh chemicals such as acids and bases.
- Sterile filtration for aqueous media.
- Filtration for strongly corrosive or oxidizing solutions.

Technical Specification

Membrane	Hydrophilic Polytetrafluoroethylene Membrane (PTFE)	
Support	PP	
Color	White	
Filter Surface	Plain	
Thickness(μm)	160±20	
Width	270mm	
Pore Size(μm)	0.1, 0.22, 0.45,1.0,3.0,5.0	
Maximum Operating Pressure	Forward: 4.2 bar @ 23°C; 1.5 bar @ 85°C	
Flow Rate	0.22 μm	⩾6 mL/min/cm^2 at 1 bar
	0.45 μm	⩾30 mL/min/cm^2 at 1 bar
Integrity Test-60% IPA/water bubble point at 23°C	0.22 μm	⩾1000 mbar
	0.45 μm	⩾ 600 mbar

Ordering Information

Catalog No.	Description
MPTL270022	Hydrophilic PTFEmembrane, pore size:0.22μm，270mm*100m
MPTL270045	Hydrophilic PTFEmembrane, pore size:0.45μm，270mm*100m

Roll Membrane

PTFE

Introduction

- Broad chemical compatibility.
- Strong chemical stability and inertia.
- Strong hydrophobicity.
- Applicable PH value 1-14.

Applications

- Organic solvent with strong chemical causticity filtration.
- Strong acid solvent filtration.
- Alkali solvent filtration.

Technical Specification

Membrane	PTFE	
Support	PP	
Color	White	
Filter Surface	Plain	
Thickness(μm)	150±20	
Width	270mm	
Pore Size(μm)	0.01(for air), 0.1, 0.22, 0.45,1.0,3.0,5.0	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃; 1.5 bar @ 85℃	
Flow Rate	Liquid	Air
0.22 μm	≥6 mL/min/cm^2 at 1 bar	≥3.5 L/min/cm^2 at 1 bar
0.45 μm	≥30 mL/min/cm^2 at 1 bar	≥7 L/min/cm^2 at 1 bar
Integrity Test-60% IPA/water bubble point at 23℃	0.22 μm	≥ 1000 mbar
	0.45 μm	≥ 600 mbar

Ordering Information

Catalog No.	Description
MPTB270022	PTFE membrane, pore size:0.22μm，270mm*100m
MPTB270045	PTFE membrane, pore size:0.45μm，270mm*100m

Roll Membrane

MCE

Introduction

- Uniform aperture.
- No medium dropping.
- Thin texture.
- Little resistance.
- High filtration speed.
- Little absorption.
- Applicable PH value 4-8.

Applications

- Gas particulate and bacteria filtration and then inspect them.
- Oil particulate and bacteria filtration and inspect them.
- Alcohol particulate and bacteria filtration and inspect them.
- Other solvent particulate and bacteria filtration and inspect them.

Technical Specification

Membrane	MCE	
Color	White	
Filter Surface	Plain	
Thickness(μm)	100±20	
Width	280mm	
Pore Size(μm)	0.1, 0.22, 0.45, 1.0, 3.0, 5.0	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃; 1.5 bar @ 85℃	
PH	3.5~8	
Flow Rate	0.22 μm	⩾10 mL/min/cm^2 at 1 bar
	0.45 μm	⩾20 mL/min/cm^2 at 1 bar
Integrity Test-water bubble point at 23℃	0.22 μm	⩾3100 mbar
	0.45 μm	⩾1500 mbar

Order Information

Catalog No.	Description
MMCE280022	MCE membrane, pore size:0.22μm，280mm*100m
MMCE280045	MCE membrane, pore size:0.45μm，280mm*100m

Roll Membrane

Hydrophilic PVDF

Introduction

- Good heat-endurance and chemical stability.
- Hydrophobic property.
- Good chemical compatibility.
- Applicable PH value 1-14.

Applications

- Gas filtration.
- Vapor filtration.
- High-temperature filtration.
- Food industry.
- Medicine filtration.

Technical Specification

Membrane	Hydrophilic PVDF	
Color	White	
Filter Surface	Plain	
Thickness(μm)	100±20	
Width	270mm	
Pore Size(μm)	0.1, 0.22, 0.45, 1.0, 3.0, 5.0	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃; 1.5 bar @ 85℃	
PH	3.5~8	
Flow Rate	0.22 μm	⩾2 L/m2/hr at 0.20Mpa
	0.45 μm	⩾3 L/m2/hr at 0.20Mpa
Integrity Test-water bubble point at 23 ℃	0.22 μm	⩾3100 mbar
	0.45 μm	⩾1500 mbar

Ordering Information

Catalog No.	Description
MPVL270022	Hydrophilic PVDF membrane, pore size:0.22μm，270mm*100m
MPVL270045	Hydrophilic PVDF membrane, pore size:0.45μm，270mm*100m

Roll Membrane

PVDF

Introduction

- Good heat-endurance and chemical stability.
- Hydrophobic property.
- Good chemical compatibility.
- Applicable PH value 1-14.

Applications

- Gas filtration.
- Vapor filtration.
- High-temperature filtration.
- Food industry.
- Medicine filtration.

Technical Specification

Membrane	PVDF	
Color	White	
Filter Surface	Plain	
Thickness(μm)	100±20	
Width	270mm	
Pore Size(μm)	0.1, 0.22, 0.45	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃; 1.5 bar @ 85℃	
PH	3.5~8	
Flow Rate	0.22 μm	⩾3 mL/min/cm^2 at 1 bar
	0.45 μm	⩾7 mL/min/cm^2 at 1 bar
Integrity Test-water bubble point at 23℃	0.22 μm	⩾3100 mbar
	0.45 μm	⩾1500 mbar

Ordering Information

Catalog No.	Description
MPVB270022	PVDF membrane, pore size:0.22μm，270mm*100m
MPVB270045	PVDF membrane, pore size:0.45μm，270mm*100m

Roll Membrane

Lab Filtration

PES

Introduction

- High filtration speed.
- Low extractables.
- Lowest protein binding.
- Applicable PH value 1-14.

Applications

- Sterile filtering protein solution
- Tissue culture media filtration.
- Tissue culture additive filtration.

Technical Specification

Membrane	PES	
Color	White	
Filter Surface	Plain	
Thickness(μm)	120±20	
width	270mm	
Pore Size(μm)	0.1, 0.22, 0.45	
Maximum Operating Pressure	Forward: 4.2 bar @ 23℃ ; 1.5 bar @ 85℃	
PH	1~14	
Flow Rate	0.22 μm	⩾15 mL/min/cm^2 at 1 bar
	0.45 μm	⩾35 mL/min/cm^2 at 1 bar
Integrity Test-water bubble point at 23℃	0.22 μm	⩾3500 mbar
	0.45 μm	⩾2500 mbar

Ordering Information

Catalog No.	Description
MPES270022	PES membrane, pore size:0.22μm，270mm*100m
MPES270045	PES membrane, pore size:0.45μm，270mm*100m

Filter Paper

Glass Fiber Filter

Introduction

- Made of 100% borosilicate glass fiber without binders or with binders.
- Glass fiber filters absorb the finest particles down to 1 µm from liquids, in air, gases and even aerosols with 0.3-0.5 µm are separated.
- The large surface area (about $2m^2/g$) provides an outstanding retention capacity.
- Chemical stability:It keeps all ite properties in contact with acid solutions (except hydrofluoric acid)and/or basic solutions at moderate concentrations.
- Extremely low metal content.
- Stability at high temperatures: It keeps its properties up to 500 ºC.
- High flow speed and high permeability to air.

Order Information

	1.6µm	1.0µm	1.2µm	2.7µm	0.7µm	GF10
21mm	GFA021	GFB021	GFC021	GFD021	GFF021	GF10021
24mm	GFA024	GFB024	GFC024	GFD024	GFF024	GF10024
25mm	GFA025	GFB025	GFC025	GFD025	GFF025	GF10025
37mm	GFA037	GFB037	GFC037	GFD037	GFF037	GF10037
42.5mm	GFA042	GFB042	GFC042	GFD042	GFF042	GF10042
47mm	GFA047	GFB047	GFC047	GFD047	GFF047	GF10047
50mm	GFA050	GFB050	GFC050	GFD050	GFF050	GF10050
55mm	GFA055	GFB055	GFC055	GFD055	GFF055	GF10055
70mm	GFA070	GFB070	GFC070	GFD070	GFF070	GF10070
90mm	GFA090	GFB090	GFC090	GFD090	GFF090	GF10090
110mm	GFA110	GFB110	GFC110	GFD110	GFF110	GF10110
125mm	GFA125	GFB125	GFC125	GFD125	GFF125	GF10125
142mm	GFA142	GFB142	GFC142	GFD142	GFF142	GF10142
150mm	GFA150	GFB150	GFC150	GFD150	GFF150	GF10150
8*10 inches	GFA810	GFB810	GFC810	GFD810	GFF810	GF10810

Nitrocellulose Blotting Membrane

Introduction

- 100% pure nitrocellulose.
- High Protein binding capacity.
- Consistent Capillary Rate and Tickness.
- Low background.

Application

- Western Blotting.
- Northern Blotting.
- Southern Blotting.
- Protein&immunoblotting.

Technical Specification

Pore Size	Bubble Point With Water	Thickness	Flow Rate For Water	Wetting With Water
0.22μm	0.4-0.5(mpa)	115μm±20	>30(ml/(min.cm²bar)	<1(secs)
0.45μm	0.23-0.26(mpa)	115μm±20	>50(ml/(min.cm²bar)	<1(secs)

Order Information

Code	Description	Filter Size
MSNC02230301	0.22μm Nitrocellulose Membranes	300mm×3000mm
MSNC04530301	0.45μm Nitrocellulose Membranes	300mm×3000mm

По вопросам продаж и поддержки обращайтесь:

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