

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)	0.1-5.0	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



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/cm ²)	≥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 Size (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



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 0.2 μ m 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 \pm 10	
Diameter	13mm, 25mm, 47mm, 90mm, 142mm, 293mm									
Pore Size(μ m)	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/cm ²)	\geq 8	\geq 25	\geq 40	\geq 80	\geq 153	\geq 220	\geq 290	\geq 400	\geq 600	

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

Order information

Pore Size (μ m)	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/cm ²)	≥1.7	≥5.0	≥6.7	≥13.3	

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

Order information

Pore Size (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



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°C)	≥150	≥600	≥800	≥1000	≥1500	≥1700	≥1900

Order information

Pore Size (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/cm ²)	≥7	≥10	≥34	≥124	≥153	≥182	≥260	≥330	≥48

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

Order information

Pore Size (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



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/cm ²)	≥5	≥8.5		≥18	

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

Order information

Pore Size (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/cm ²)	≥5	≥8.5	≥18	≥122	≥244

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

Order information

Pore Size (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



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/cm ²)	≥6	≥12	≥30		

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

Order information

Pore Size (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 supplies 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.



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 °C Δ p = 0.07 Mpa (mL/min/cm ²))	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



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°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
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 solutions.

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 PTFE membrane, pore size:0.22μm, 270mm*100m
MPTL270045	Hydrophilic PTFE membrane, 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°C; 1.5 bar @ 85°C	
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°C	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



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°C; 1.5 bar @ 85°C	
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°C	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°C ; 1.5 bar @ 85°C	
PH	3.5~8	
Flow Rate	0.22 μm	≥ 2 L/m ² /hr at 0.20Mpa
	0.45 μm	≥ 3 L/m ² /hr at 0.20Mpa
Integrity Test-water bubble point at 23 °C	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



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 \pm 20	
Width	270mm	
Pore Size(μm)	0.1, 0.22, 0.45	
Maximum Operating Pressure	Forward: 4.2 bar @ 23°C; 1.5 bar @ 85°C	
PH	3.5~8	
Flow Rate	0.22 μm	\geq 3 mL/min/cm ² at 1 bar
	0.45 μm	\geq 7 mL/min/cm ² at 1 bar
Integrity Test-water bubble point at 23°C	0.22 μm	\geq 3100 mbar
	0.45 μm	\geq 1500 mbar

Ordering Information

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

Roll Membrane



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°C ; 1.5 bar @ 85°C	
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°C	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