

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/cm ²)	≥5	≥8.5		≥18	

Note: 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.

Lab 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

Note: 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

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	1~14	
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 °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



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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°C; 1.5 bar @ 85°C	
PH	1~14	
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°C	0.22 μm	≥3100 mbar
	0.45 μm	≥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