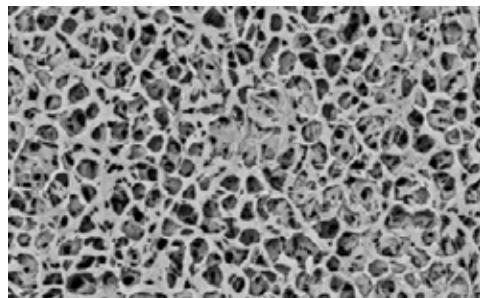


Hydrophilic PVDF Membrane



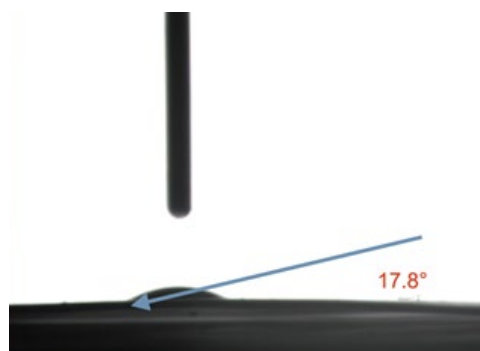
Description

qpore PVDF hydrophilic membranes is made by hydrophilic modification of PVDF membrane featuring an asymmetric, unsupported structure. Compared with other microfiltration membranes, it has the advantages of low protein adsorption, ultra-high water flow rate and wide chemical compatibility. Therefore, PVDF membranes are commonly used in protein solution filtration, various conventional filtration and sample preparation applications. Another special feature of these membranes is that all types can be autoclaved and sterilized using gamma rays, and can be used for sterile filtration in the biomedical industry.



Features

- Unsupported
- Bactericidal filtration
- Low protein binding ($< 2 \text{ ug} / \text{cm}^2$)
- Excellent hydrophilicity
- High porosity and high flow rate
- Particle retention rate: $> 99\%$
- Lower extractables



Contact angle test of
hydrophilic PVDF (0.2 μm) membrane

Applications

- Sterile filtration
- Filtration of acids and bases
- Biopharm: ophthalmic solutions, serum filtration
- Sample preparation: HPLC

Specification

Membrane Material	Pore Size (μm)	Width (mm)	Thickness (μm)	Water Flow Rate (mL / min / cm ²) 23 °C, ΔP = -10 psi	Bubble Point (23 °C, psi)
Hydrophilic PVDF	0.1	250 - 300	100 - 130	3 - 10	26-37 (60% IPA)
	0.22			8 - 20	47 - 76
	0.45			35 - 120	23 - 38
	0.65			80 - 150	17 - 21
	0.8			100 - 200	12 - 18
	1			150 - 250	9 - 12
	5			400 - 500	-