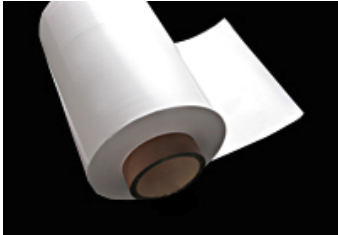


Micro PES Membrane

Picture:



Product Description:

Micro PES (Polyethersulfone) membrane is hydrophilic and constructed from pure polyethersulfone polymer membrane. It is designed to remove particulates during filtration, and its low protein and drug binding characteristics make it ideally suited for use in life science applications.

Features and Benefits:

- High flow rates and throughputs due to a highly asymmetric pore structure
- Inherently hydrophilic
- Low protein binding characteristics
- Good chemical compatibility
- Compatible with a variety of sealing methods
- Available in a wide range of pore sizes
- Higher wick rates (lateral flow)
- Superior burst strength
- Excellent flow rates
- Lot-to-lot and within-lot consistency
- Low extractables, no external wetting agents
- Conforming to DIN EN ISO 9001 and DIN EN ISO 46001

Application:

Medical Applications

- Bacteria and particulate removal
- Syringe filtration

Industrial Applications

- Rinse and DI water
- Pharmaceuticals

Technical Specification:

Table 1

Product types	Nominal Poresize [µm]	Bubble point in water		Min. TMF **
		[bar]	[psi]	
1F PH	0.04	2.8*	40.6	4
1F EL	0.1	2.0* *	29.9	10
2F	0.2	4.3	62.4	35
4F	0.45	3.0	43.5	60
5F	0.5	2.3	33.4	90
6F	0.65	1.9	27.6	90
8F	0.8	1.4	20.3	245
12F	1.2	1.0	15.2	260

(*)(in IPA)

(* *)(TMF = Transmembrane Flow)

Table 2

Sterilization	Gamma Irradiation, Ethylene Oxide (EtO), Autoclaving or Live Steam
Endotoxin levels and Class VI toxicity	Passed
Thickness	110 - 150 µm
Extractables	<2% (<0.015 mg/cm ²)
BSA Protein Binding	<20 µg/cm ²
Maximum Operating Temperature	130° C (266° F)
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency and Insert Molding
Pore Size Range	0.03 to 20.0 µm

Morphology

Double skin on an open anisotropic pore structure



The highly asymmetrical pore structure of our Micro PES flat membrane offers a high dirt loading capacity, increasing the filtration performance to give higher throughputs and higher flow rates than symmetrical membranes

Mechanical properties

The double skin construction of all Micro PES flat membranes provides excellent mechanical properties.

Thickness	110µm
Tensile Strength	>700cN/15 mm
Elongation at Break	>25%
Change of Length (steam, 121 oC)	<3%
Burst Pressure	>1bar

Order Information:

Item Number	Membrane Material	Filter Pore Size(µm)
MCPE022	PES	0.22

Provide membrane slitting and cutting to meet special request of our clients.

Flexibility for OEM Requirement:

Micro PES Hydrophilic membrane are available in different diameters, pore size, lurelock connections and packing depends on your quantity, can be customized to meet your application requirements. Because we are specialized OEM manufacture, all customization can be done easily and cost effectively.