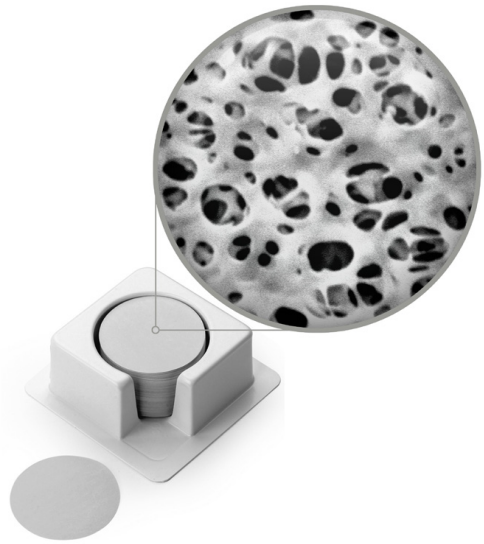
POLYETHERSULFONE MEMBRANE FILTERS

Hydrophilic, low binding, polyethersulfone (PES) membrane filters are ideal for general filtration, tissue culture media sterilization, and life science/bio-fluid applications.

During general filtration, inherent, asymmetric pores allow PES membranes to efficiently remove particulates from solutions. The high burst strength and durability offered by these filters allow for their use with aggressive handling and automated equipment. Low extractable levels eliminate the need for wetting agents, thereby reducing interference with analyses and providing fluid purification.



SPECIFICATIONS

GENERAL	
Sterilization	Gamma Irradiation, EtO, Autoclave, Live Steam
USP Class VI Testing	Passed
Nominal Thickness	110-150 µm
BSA Protein Binding	<20 µg/cm²
Extractables	<2%
Max. Operating Temp.	266°F (130°C)
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency, Insert Molding
Nominal Thickness	110-150 µm

PERFORMANCE BY PORE SIZE		
	H_2O Flow Rate[1]	**Bubble Point (psi)**
0.03 µm	5.5	90
0.10 µm	11.7	70
0.20 µm	33.2	50
0.45 µm	58.2	35
0.65 µm	95.5	21.3
0.80 µm	117.0	13
1.20 µm	143.0	11
5.00 µm	186.0	6

[1] Measured as mL/min/cm² at 10 psi (0.7 kg/cm²)

APPLICATIONS

- Blood glucose testing
- Food, beverage, and pharmaceutical filtration
- I.V. filters
- Particulate removal
- Serum cholesterol testing
- Groundwater testing

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