

## POLYCARBONATE TRACK ETCH MEMBRANE FILTERS

With controlled pores, low extractable and binding levels, and a smooth surface, these durable polycarbonate track etch (PCTE) membrane filters allow for rapid cell migration, microbial growth, and reduced incubation times.

PCTE membranes are available with a variety of configurations:

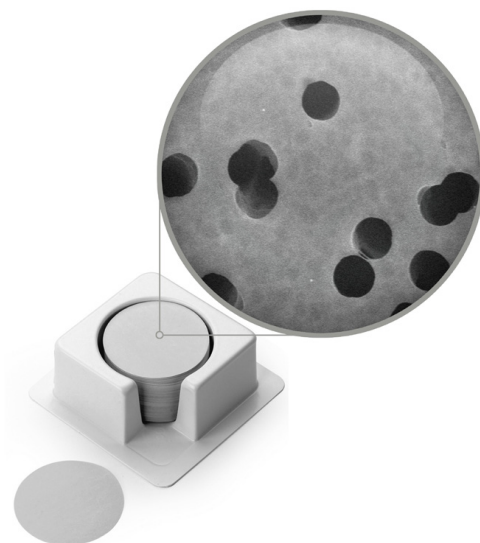
**Hydrophilic PCTE membranes** are coated with PVP to enhance the filter's ability to process aqueous and alcoholic samples.

**Hydrophobic PCTE filters** are PVP-free and ideal for chemotaxis, cell studies, and venting applications.

PCTE membranes are ideally suited for the detection of manmade pollution in groundwater and wastewater (organic halide adsorption determination) due to exceptionally low protein-binding/extractable levels and precisely defined pores. These filters are also suited for a wide range of microbiology, petroleum, and chemical applications.

### SPECIFICATIONS

GENERAL	
Sterilization	Gamma Irradiation, EtO
USP Class VI Test	Passed
Nominal Thickness	6-32 µm
BSA Protein Binding	<5 µg/cm <sup>2</sup>
Max. Operating Temp.	284°F (140°C)
Burst Strength	10 psi (0.7 bar)
pH Range	4-8
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency, Insert Molding



### APPLICATIONS

- Chemotaxis (PVP-Free)
- Epifluorescence
- Cytology
- Cell biology (PVP-Free)
- Venting (PVP-Free)
- Microscopy
- Erythrocyte deformability

PERFORMANCE BY PORE SIZE			
	Air Flow Rate <sup>1</sup>	H2O Flow Rate <sup>2</sup>	Bubble Point (psi) <sup>3</sup>
0.01 µm	0.0075	0.1	NA
0.03 µm	0.075	0.2	NA
0.05 µm	0.37	0.4	50.0
0.08 µm	0.75	0.6	38.0
0.10 µm	1.50	2.5	30.0
0.20 µm	3.00	10	20.0
0.40 µm	7.50	45 (33 AOX)	12.0
0.60 µm	7.50	60	9.0
0.80 µm	19.00	90	7.0
1.00 µm	20.00	130	6.0
2.00 µm	16.50	300	3.0
3.00 µm	37.50	440	2.0
5.00 µm	30.00	700	1.2
8.00 µm	30.00	1,000	0.7
10.00 µm	34.50	1,150	0.5
12.00 µm	-	-	-
14.00 µm	63.50	1,400	0.2
20.00 µm	-	-	-
25.00 µm	33.00	>1000	<1
30.00 µm	50.00	>1500	<1

<sup>1</sup> Measured as L/min/cm<sup>2</sup>; ≤ 2 µm at 10 psi (0.7 kg/cm<sup>2</sup>), ≥ 3 µm at 5 psi (0.35 kg/cm<sup>2</sup>)

<sup>2</sup> Measured as mL/min/cm<sup>2</sup> at 10 psi (0.7 kg/cm<sup>2</sup>)

<sup>3</sup> Measured with isopropanol (IPA)