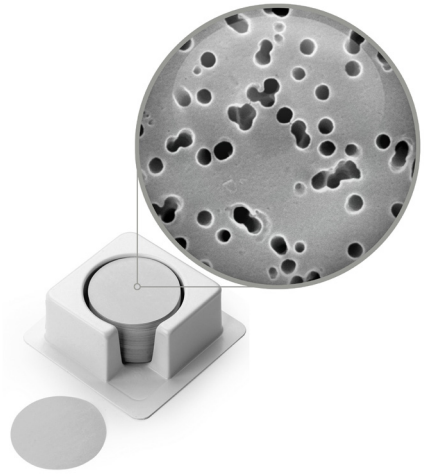
POLYESTER MEMBRANE FILTERS



Hydrophilic polyester track etch (PETE) membranes are made from a thin, translucent, microporous, polyester film and are ideal for use in blood assays, microscopic analysis, and general filtration.

The surface of **PETE membranes** is smooth and flat (excellent for particle visibility and quicker analysis) with pores capable of capturing all particles larger than their precise diameters. In comparison to their PCTE counterparts, PETE membranes have similar material characteristics and applications, but feature greater resistance to solvents.

Polyester filters are also available with nominal pore sizes. **Polyester drain discs** are typically used as a spacer between stacked membranes; they are ideal for increasing flow rates in PCTE and PETE membranes. The polyester spun-bound “drain” type disc prevents “pore blinding”, or blockage of the capillary pores, in screen membranes, which results in higher flow rates and increased throughput. These discs also increase flow by lifting off of screen supports and exposing all the pores, ensuring efficient performance when placed between two filters in a serial filtration stack.

APPLICATIONS

- Precise general filtration and prefiltration
- Removal of red blood cells from plasma
- Flow control of reagents through assay

SPECIFICATIONS

GENERAL	
Sterilization	Gamma Irradiation, EtO, Autoclave
USP Class VI Testing	Passed
Nominal Thickness	6-11 µm
BSA Protein Binding	<5 µg/cm^2
Max. Operating Temp.	284°F (140°C)
Burst Strength	10 psi (0.7 bar)
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency, Insert Molding

PERFORMANCE BY PORE SIZE			
	Bubble Point (psi)[1]	**H_2O Flow Rate[2]**	**Air Flow Rate[3]**
0.10 µm	30.0	2.5	1.5
0.22 µm	20.0	10.0	3.0
0.40 µm	12.0	33.0	7.5
0.80 µm	7.0	90.0	18.0
1.00 µm	6.0	130.0	20.0
2.00 µm	3.0	300.0	16.5
3.00 µm	2.0	440.0	37.5
5.00 µm	1.2	700.0	30.0
8.00 µm	0.7	1000.0	30.0
10.00 µm	0.5	1150.0	34.5

[1] Measured as L/min/cm^2; 3-10 µm at 10 psi, 0.1-2.0 µm at 5 psi

[2] Measured as mL/min/cm^2 at 10 psi (520 mmHg)

[3] Measured with isopropanol (IPA)