

Description

- Microporous asymmetric polyethersulfone membrane cartridges
- Suitable for pre-filtering and post-filtering of drinks, foods, DI Water, semiconductor, LCD industry, pharmaceutical process with excellent performance of a high filtration area, high flux, and low-pressure drop.
- Wide range of pore size from 0.04 to 1.2 μ m.
- Morphology
Double skin on an open anisotropic pore structure.



Feature

- High flow rates and Consistent filtration performance through controlled pore size
- Inherently hydrophilic
- Good chemical compatibility
- All polypropylene parts and Thermal bonded manufacturing without adhesives media extraction
- All materials are FDA listed
- Three grade
 - :Standard for industry
 - :Beverage industry (sterilized)
 - :Pharmaceutical & biological industry (double layer, sterilized)
- 100 percent integrity tested and DI water flushed
- It have been received one of the highest reputation on electronics and food market
- Abundant experience with major customers application
- Manufactured in a clean room (100 and 10,000 Class)
- ISO9001 & ISO14001

Applications

General industry

- Inks and dyes
- Process water
- Serums and tissue culture media
- Acids, Bases, and Oxidants
- Pharmaceutical preparation

Beverage industry

- Wine
- Beer
- Fruit Juice
- Bottle water

Pharmaceutical & biological industry

- Final filtration of Drugs and Biological
- Final filtration of pure water for dialysis
- Diagnostics
- Final filtration of water for injection
- LVPs, SVPs
- Tissue culture media

Specifications

Materials

- Medium : Hydrophilic PES Membrane
- Parts(Core, Cage,Endcaps) : Polypropylene, High density polyethylene
- Support and Drainage : Polypropylene
- Seal(O-ring) : EPDM, Silicone,Viton, PTFE encapsulated

Structure

- Nominal O.D : 68mm (4.42inch)
- Nominal I.D : 30mm (2.15inch)
- Nominal length : 250mm, 500mm, 750mm, 1000mm (Possible real inch)
- Effective filtration area for 10inch cartridge : 0.63m²

Operating conditions

- Max. operating temperature : 80°C at 60psi(4.1bar)
- Max. differential pressure : 60psi(4.1bar) at 25°C
- Sterilization –In situsteam or autoclave to 120°C (30minute cycles) for a max. accumulated exposure of 10hours at Max. differential pressure 7psi(0.5bar). Alternatively, PORPES may be sanitized with compatible chemical agent.

Integrates test

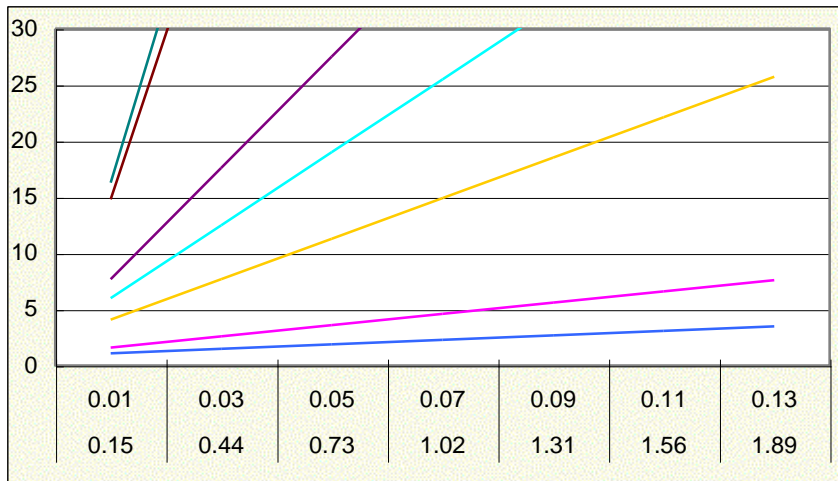
Bubble point (for 10inch cartridge)

Pore size(µm)		0.04	0.1	0.2	0.45	0.65	0.8	1.2
Bar	Mean	2.80	2.06	4.3	3.0	1.9	1.45	1.05
	Range(±)	0.45	0.21	0.54	0.25	0.42	0.25	0.25
Psi	Mean	40.6	29.9	62.4	43.5	27.6	21.0	15.2
	Range(±)	6.5	3.0	7.8	3.6	6.1	3.6	3.6
Measured		In IPA		IN Water				
Retention of bacteria				7	7	7		
(log_red_value)								

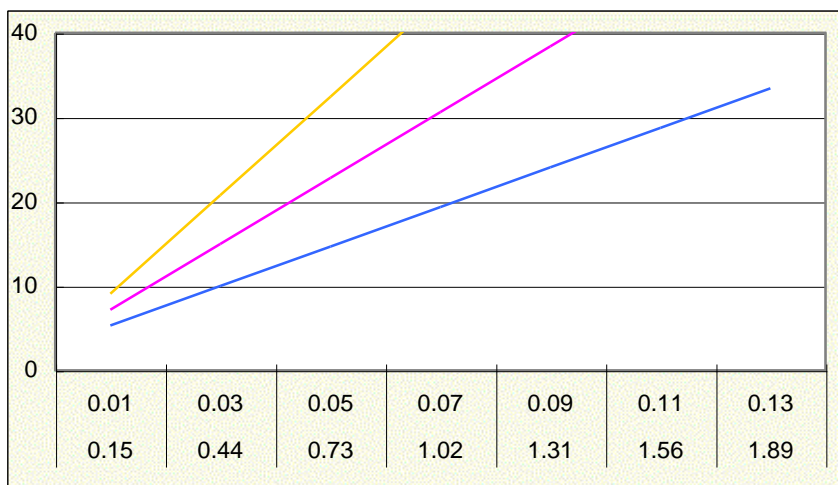
*bacteria : *brevundimonas diminuta*, *Serratia marcescens*, *Sacch cerevisiae*

Flow rate of 10inch cartridge

PES



DURAPES



Part Number Identification

CSP- □□□□ - □□ - □
 ①②③④ ⑤⑥ ⑦

①	②	③	④	⑤	⑥	⑦
End Style	Material of Medium	Material of Parts	Material of Seal	Length	Grade	Micron Rating
1:DOE 2:226/FLAT 3:222/FLAT (E:222/FLAT) 7:226/FIN 8:222/FIN	S:PES	1:PP(85℃) 2:Reinforced PP(105℃) 3:HDPE(130℃)	S:Silicone E:EPR V:VITON F:FEP Encapsulated	1:250mm 2:500mm 3:750mm 4:1,000mm	G:Standard grade	0.04 0.1 0.2 0.45 0.6 0.8 1.2