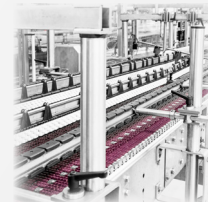


# Poly-Philic Pleated Filter Cartridge with PES Membrane

The Poly-Philic pleated filter cartridge is made of PES (polyethersulfone) membrane with a mirrored asymmetric structure that ensures lower pressure drop at high flow rate, and extended service life. PES membrane has excellent chemical resistance and hydrophilization which is suitable for circulated filtration of BOE, clean, DI water in semiconductor industry & photoelectric industry and the terminal fine filtration of general food & beverage factory.

## ✓ Applications of product

- Use in clean and rinse process in photoelectric industry.
- BOE, photoresists of filtration.
- Terminal fine filtration of DI water system.
- Terminal fine filtration of food and beverage.

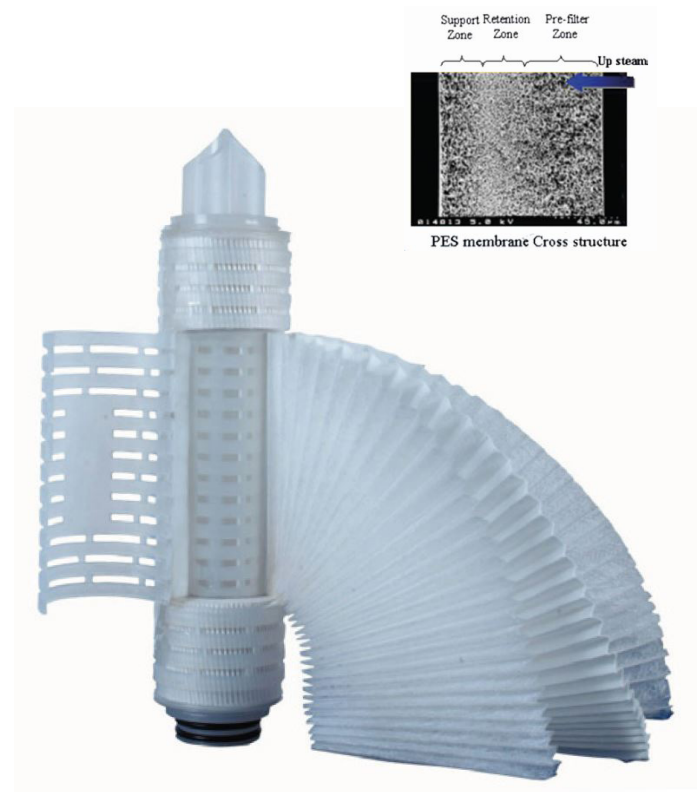


## ✓ Features & Benefits

- High porous asymmetric membrane that ensures lower pressure drop, high flow rate and extended service life.
- End Caps and connectors are sealed by thermal bond, free binder.
- Manufactured in clean room, highly clean cartridge.
- Pre-flush with 18 Megohm-cm DI water for 30 minutes, TOC content is lower than 40 ppb.
- Polyethersulfone membrane is permanently hydrophilic membrane without use of additives, surface active agents or post-treatments.
- Integrity test is available.
- Certificated by FDA.
- Available pore size rating 0.04 micron - 1.2 micron.
- In compliance with the latest EC Directive for food contact.

## ✓ Operating Conditions

- Maximum operating forward pressure:  
20°C: 5.5 kg/cm<sup>2</sup>  
80°C: 1.7 kg/cm<sup>2</sup>
- Maximum operating temperature: 80 °C.
- Sterilization:  
Autoclave: 121°C, 30 min, 10 times  
Steam: 121°C, 30 min, 10 times  
Hot water: 80°C, 30 min, 30 times

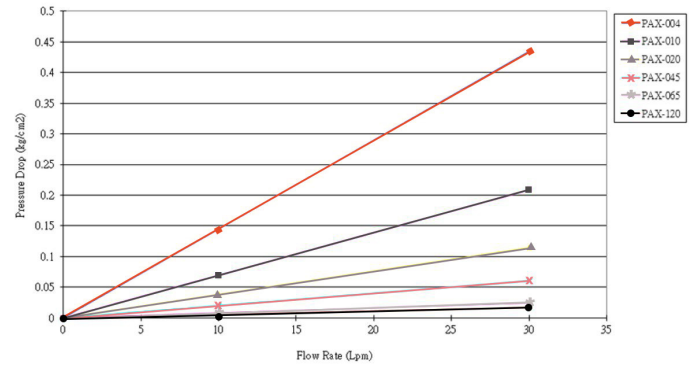




## ✓ Product specifications

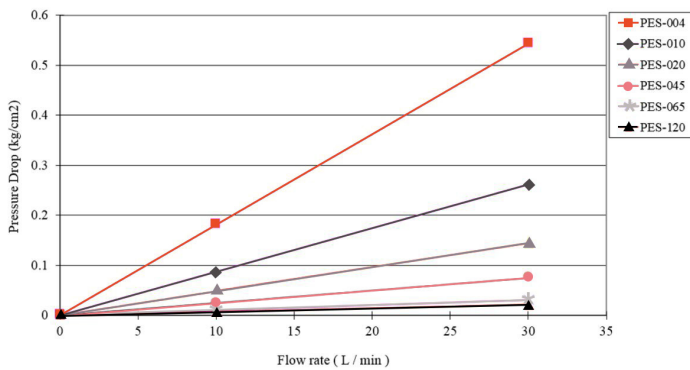
- Pore size: 0.04, 0.1, 0.2, 0.45, 0.65, 1.2 micron.
- Membrane: PES (Polyethersulfone) hydrophilic membrane.
- Support: PP
- Core & End Cap: High Strenght PP (Stainless Steel insert end cap available).
- O-ring Material: EPDM, Buan N, Silicone, Viton, PFA, encapsulated Viton.
- Filtration Area:
  - Poly Philic PES =  $0.55 \text{ m}^2 / 10''$
  - Poly Philic E-PES =  $0.92 \text{ m}^2 / 10''$
  - Poly Philic Plus PAX =  $0.8 \text{ m}^2 / 10''$
- Length: 10", 20", 30, 40"
- Inner Diameter: 28 mm
- Outer Diameter:
  - PES.PAX= 69mm
  - E-PES= 80mm
  - N-PES= 64mm

## PAX Initial Pressure Drop

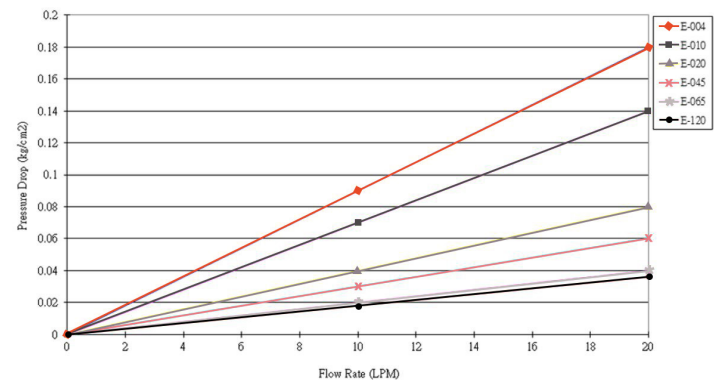


- Suggested equivalent products
  - Pall Poly-Fine II 0.2micron
  - Pall Varafine VFSG
  - Pall Water Fine

## PES Initial Pressure Drop



## E-PES Initial Pressure Drop



## ✓ Ordering Information

	PES	010	E	0	1	B	A
Outer Diameter Blank: Standard: 69 mm E: 80 mm N: 64 mm	PES: Poly-Philic PAX: Poly-Philic Plus	Pore size: 004 : 0.04 micron 010 : 0.10 micron 020 : 0.20 micron 045 : 0.45 micron 065 : 0.65 micron 120 : 1.20 micron	O-Ring Material: E = EPDM N = BUNA N S = Silicone V = Viton T = PFA Encapsulated Viton	End cap number: F = Double Open End (DOE) 0 = 222 /Flat (SOE) 5 = 222 /Fin (SOE) 6 = 226 /Flat (SOE) 7 = 226 /Fin (SOE) A = 213 / 213 B = 213 /Flat C = 213 /Fin	Length A = shorter than 10" 1 = 10" 2 = 20" 3 = 30" 4 = 40"	Pre-Flush A = Non-Preflush B = Preflush with DI Water	Integrity Test A = Non-Integrity test B = Integrity test

Non E-PAX Order