

Poly Philic Pleated Filter Cartridges with PES Membrane

Poly-Philic pleated filter cartridge is a PES (polyethersulfone) membrane in a polypropylene casing. The filter media polyethersulfone is the mirrored asymmetric structure that ensure lower pressure drop at high flow rate, and extended service life.

PES membrane has excellent chemical resistance and hydrophilization is widely use in BOE etchant, clean, DI water circulated filtration of semiconductor industry & photoelectric industry and the terminal fine filtration of general food & beverage factory.

Features & Benefits

- Available pore size rating 0.04 micron ~1.2 micron
- Polyethersulfone membrane is permanently hydrophilic membrane without use of additives, surface active agents or post-treatments.
- The highly porous asymmetric membrane that ensure lower pressure drop, greater throughput, and extended service life
- 0.55m² of filtration area, low pressure drop, and high flow rate.
- The filter element is manufactured in clean room.
- Pre-flush 30 minutes with 18M-Ω DI water/2GPM, TOC content is lower than 40ppb
- Assurance of product integrity test and effectiveness in operation.
- Certificated by FDA.
- End Caps and connectors are sealed by thermal bond, free binder.

Operation Conditions

- Maximum operating forward pressure drop
20°C : 5.5 kg/cm²
80°C : 1.7 kg/cm²
- 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

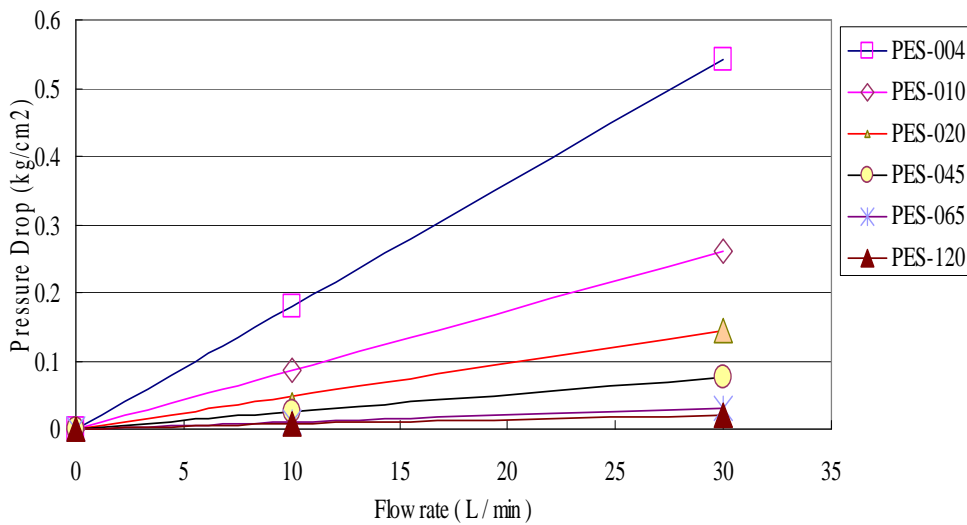
Applications of products

- Filtration of photoelectric industry of Clean, Rinse
- BOE, photoresists of filtration
- Terminal fine filtration of DI water system
- Terminal find filtration of food and beverage

Product specifications

- Pore size :0.04,0.1, 0.2, 0.45, 0.65,1.2 micron
- Membrane : PES (Polyestersulfone) hydrophilic membrane
- Support : PP
- Core & End Cap : High Strength PP
- O-ring Material : EPDM,,Buna N,Silicone,Viton, Viton encapsulated PFA
- Filtration Area : 0.55m²
- Length : 10", 20", 30",40"
- Inner Diameter : 28 mm
- Outer Diameter : 69 mm

Initial pressure drop



Suggested equivalent products

- Pall Fluorodyne Filter
- PTI Claariflow Eletronics
- PTI Clariflow Water
- Filterite Poly Fine II 0.2 micron
- Filterite Asymmetrix Sigma
- Filterite Asymmetrix Sigma+
- Filterite Asymmetrix Omega
- Filterite Asmmetrix Versa

spec.	Integrity Test(water)			
	Pore Size	Bubble Point (psi)	Diffusion Rate	
			cc/min	psi
PES004	0.04micron	45 psi*	≤ 25	65
PES010	0.1 micron	33 psi*	≤ 40	65
PES020	0.2 micron	37 psi	≤ 35	30
PES045	0.45micron	30 psi	≤ 20	24
PES065	0.65micron	17 psi	≤ 20	13

*Bubble Point tested in 60% IPA 40% DI water

Ordering Information

PES - 010 - E - 0 - 1 - B - A

Poly - Philic

Pore size:

- 004 = 0.04micron
- 010 = 0.10micron
- 020 = 0.20micron
- 045 = 0.45micron
- 065 = 0.65micron
- 120 = 1.2micron

O-ring material

- E = EPDM
- N = Buna N
- S = Silicone
- V = Viton
- T = Viton encapsulate with Teflon

Length:

- 1 = 10"
- 2 = 20"
- 3 = 30"
- 4 = 40"

End cap:

- F = Double open (DO)
- 0 = 222 O-ring/cap
- 5=222 O-ring/Stear
- 6 = 226 O-ring/cap
- 7 = 226 O-ring/Stear

Pre-flush

- A = Non-Preflush
- B = Pre-flush with DI water

Integrity test

- A = Non-Integrity test
- B = Integrity test