PES-E

Polyethersulfone For Microelectronics

Liquid Clarification

General Water Filtration

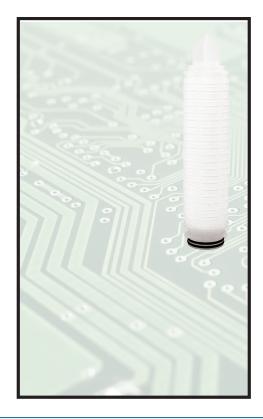
ElectronicsHigh Purity Chemical Filtration

Semiconductor
Deionized Water Systems

The PES-E was developed for microelectronics industry where a high degree of particle retention and/or constant bacterial barrier for effective sterilization is required.

Hydrophilic asymmetric polyethersulfone membranes ensure excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications in the microelectronics industry. The PES-E is 100% integrity testable and utilizes Strainrite's double rinse process to ensure extremely low extractables. Polyethersulfone offers a broad range of chemical compatibility and temperature performance.

The PES-E meets USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.

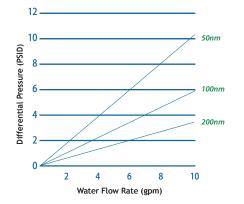


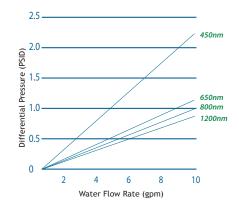
Features & Benefits

PES-E

- High surface area membrane offers excellent life and flux rates while providing absolute filtration
- Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality
- Low pressure drops yield higher flow rates and reduced processing time
- Non-fiber shedding polypropylene support materials eliminate fiber migration
- Integrity testable
- Maximum pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element
- Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables
- High strength design allowing for extended use

Performance Characteristics





Specifications

Absolute Rated Retention (nanometers) 50, 100, 200, 450, 650, 800, 1200

Maximum Differential Pressure

Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C) Reverse: 50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature 180°F (82°C) Continuous Duty

Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or Autoclave: 20 times at 275°F (135°C) Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

DI Water Specifications

All Cartridges are 18 megohm flushed

Packaging Economy

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Bulk packaging in case quantities to reduce material disposal:

5 inch	48 per carton
10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

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Materials of Construction

Filter Media

Polyethersulfone

End Caps Polypropylene

Pleat Support Material Polypropylene

Cage/Core

Polypropylene

Seals

Buna N Fluorocarbon EPDM Silicone PTFE FEP Encapsulated Fluorocarbon FEP Encapsulated Silicone

Sealing

Thermal Bond

Dimensions

PES-E

Outside Diameter 2.7" (6.87cm)

Approx. Surface Area

6.8ft² per 10" equivalent

Lengths

5" (12.7cm) 10" (25.4cm) 20" (50.8cm) 30" (76.2cm) 40" (102cm)

Ordering Information

