PES-E

Polyethersulfone For Microelectronics

Clarity
clear solutions

PRODUCT HIGHLIGHTS

- **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
- **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



PRODUCT DESCRIPTION

Strainrite's 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.

ABSOLUTE RATED RETENTION (NANOMETERS)
50, 100, 200, 450, 650, 800, 1200 µm

OUTSIDE DIAMETER
MPS 2.55" (6.48cm) | PRMXS 2.7" (6.87cm)

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)

APPROX SURFACE AREA
6.8 square feet per 10" equivalent

MAXIMUM OPERATING TEMPERATURE
180°F (82°C) Continuous Duty Polypropylene

PLEAT SUPPORT MATERIAL
Polypropylene

FILTER MEDIA
Polyethersulfone

PRODUCTION PROCESS
Thermal Bond

CAGE/CORE
Polypropylene

END CAPS
Polypropylene

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

STERILIZATION
Cartridge can be sterilized via steam or Autoclave: 20 times, for 60 minutes at 257°F (125°C) and 3psi
Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

SEALS
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

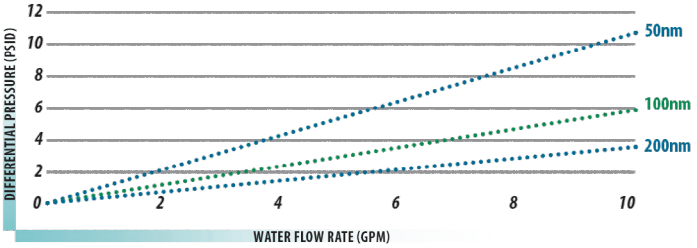
PACKAGING ECONOMY
Bulk packaging in case quantities to reduce material disposal:
5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch - 9 per carton

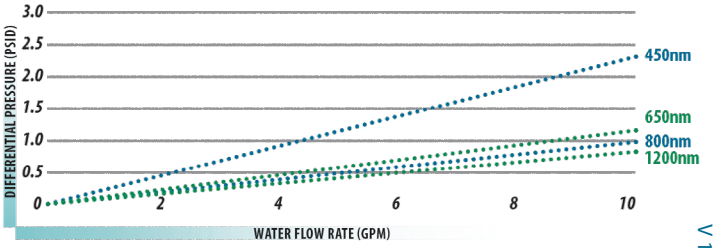
LENGTHS
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

SPECIFICATIONS

SCAN FOR MORE INFO

PERFORMANCE CHARACHTERISTICS





V 1026

ORDER OPTIONS

CARTRIDGE	RATINGS NANOMETERS	LENGTHS	SUPPORT	END CAP	O-RING	GRADE	OPTIONS
PESE I PES E	50 100 200 450 650 800 1200	5" 10" 20" 30" 40"	**PP** = Polypropylene	**C1** = Double Open Ends **C2** = 213/Recessed Cup **C3** = Flat/222 **C4** = Single Open End/Flat **C5** = Recessed Cup/222 **C6** = Flat/226 **C7** = Fin/226 **C8** = Fin/222	**S** = Silicone **B** = Buna N **V** = Fluorocarbon **E** = EPDM **TF** = PTFE Foam **TH** = PTFE Hard **TV** = Encapsulated Fluorocarbon **TS** = Encapsulated Silicone	**E** Electronics	**I** = 316 SS Insert **T** = Integrity Tested

PESE → 50 (MICRON RATING) – 10 (CARTRIDGE LENGTH) → PP (PLEAT SUPPORT) → C1 (END CAP CONFIGURATION) → S (GASKET / O-RING MATERIALS) → E (CARTRIDGE GRADE) → T (CARTRIDGE OPTIONS) → **PESE50-10PPC1SET**