

# Pleated Polyethersulfone Membrane

Mem-PLEAT E & Pur-MAXX E

• Liquid Clarification

• General-Use Water Filtration

• Chemical Filtration

• Deionized Water Systems

Strainrite's [Pleated Polyethersulfone Membrane Cartridges](#) were developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

Hydrophilic asymmetric polyethersulfone membrane ensures excellent flow rates, broad chemical compatibility, low protein binding, low extractability, high mechanical strength, and temperature resistance in a variety of applications for the biopharmaceutical, microelectronics, chemical, food and beverage industries.

These cartridges meet USP Biological Reactivity Test, in vivo for class VI-121°C plastics. Sterilizable using industry recognized and accepted methods.

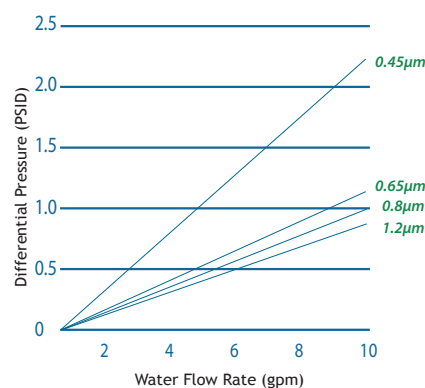
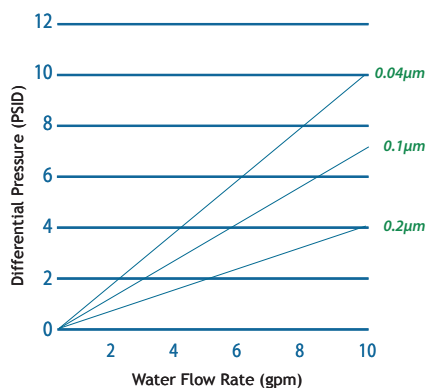


## Features & Benefits

### Mem-Pleat E & Pur-MAXX E

- High surface area membrane offers excellent life and flux rates, while providing absolute-rated filtration
- Absolute-rated membrane provides reliable, consistent and repeatable filtrate quality
- Low pressure drops yield higher flow rates and reduced processing time
- Integrity tested
- Thermally bonded construction without the use of adhesives or binders, resulting in lower extractables
- High strength design allowing for extended use and multi-autoclave cycles
- All materials of construction are FDA compliant with CFR Title 21, Pharmaceutical grades are bio-safe in accordance with USP Class VI
- Non fiber-shedding Polyester and Polypropylene support materials eliminate fiber migration
- Pleat design for greater surface area, ensuring longer service life, fewer change outs and reduced operating costs per element
- Pharmaceutical Grade elements are 100% integrity tested

## Performance Characteristics



## Specifications

### Absolute Rated Retention

0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20

### 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 Polypropylene  
 275°F (135°C) Continuous Duty Polyester

### 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

### 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

## Materials of Construction

### Filter Media

Polyethersulfone

### End Caps

Polypropylene  
 Polyester

### Pleat Support Material

Polypropylene  
 Polyester

### Cage/Core

Polypropylene  
 Polyester

### Seals

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

### Sealing

Thermal Bond

## Dimensions

### Mem-Pleat E

**Outside Diameter**  
 2.55" (6.48cm)

**Approx. Surface Area**  
 6.8ft<sup>2</sup> per 10" equivalent

### Lengths

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

### Pur-MAXX E

**Outside Diameter**  
 2.7" (6.87cm)

**Approx. Surface Area**  
 6.8ft<sup>2</sup> per 10" equivalent

### Lengths

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

## Ordering Information

Mem-Pleat E

**MPE**

**PRMXE**

Pur-MAXX E

