

Mem-PLEAT E & Pur-MAXX E

Pleated Polyethersulfone Membrane

Clarity
clear solutions

PRODUCT HIGHLIGHTS

- Strainrite's Clarity filter cartridges are used for the clear filtration of liquids, whether it be for sterilization or to separate micro-organisms
- High Surface Area Membrane offers excellent life and flux rates, while providing absolute-rated filtration
- 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

PRODUCT DESCRIPTION

Strainrite's **Clarity™ 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.



ABSOLUTE RATED RETENTION
0.01, 0.02, 0.04, 0.1, 0.2, 0.45, 0.65, 0.8, 1.2

OUTSIDE DIAMETER
MPE: 2.55" (6.48cm) | PRMXE: 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
275°F (135°C) Continuous Duty Polyester

PLEAT SUPPORT MATERIAL
Polypropylene
Polyester

FILTER MEDIA Polyethersulfone	PRODUCTION PROCESS Thermal Bond	CAGE/CORE Polypropylene Polyester	END CAPS Polypropylene
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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: 40 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

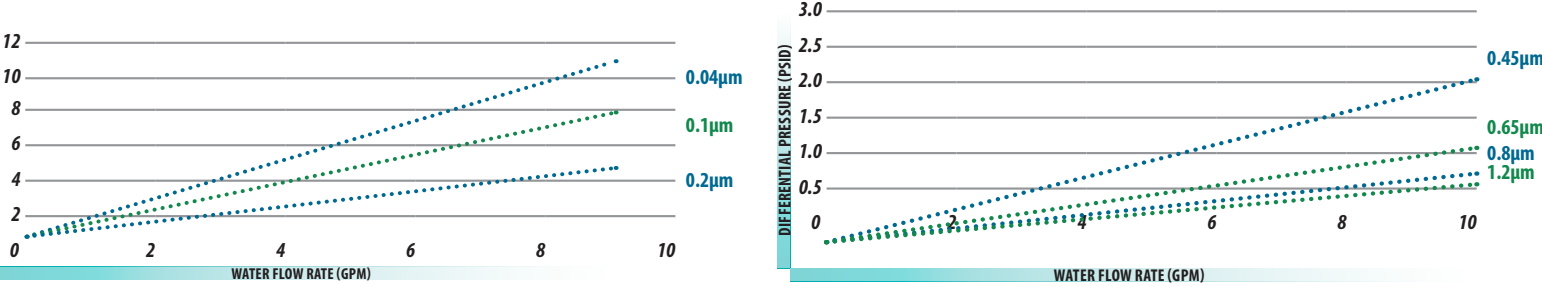
PACKAGING ECONOMY
Bulk packaging in case quantities to reduce material disposal:
5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch - 9 per carton

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

v1 0826

PERFORMANCE CHARACHTERISTICS



ORDER OPTIONS

CARTRIDGE	RATINGS	LENGTHS	SUPPORT	END CAP	O-RING	GRADE	OPTIONS
MPE Mem-Pleat E (2.55") PRMXE Pur-MAXX E (2.7")	0.01 = 0.01 µm 0.02 = 0.02 µm 0.04 = 0.04 µm 0.1 = 0.1 µm 0.2 = 0.2 µm 0.45 = 0.45 µm 0.65 = 0.65 µm 0.8 = 0.8 µm 1.2 = 1.2 µm	5" 10" 20" 30" 40"	PP = Polypropylene PE = Polyester	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	- = General 1 = FDA Grado 2 = Pharmaceutical 5 = Water	I = 316 SS Insert DIF = DI Flush APH = All Polyester Hardware PLEAT OPTION SP = Special Pleat (PRMXE only)

