

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

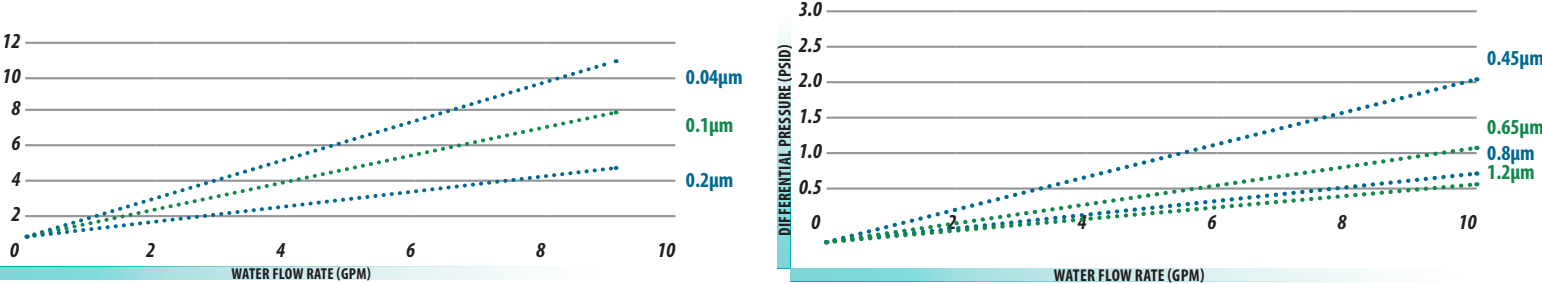
PACKAGING ECONOMY
Bulk packaging in case quantities to reduce material disposal:
5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch - 9 per carton

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

v 1026

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 µm 0.02 µm 0.04 µm 0.1 µm 0.2 µm 0.45 µm 0.65 µm 0.8 µm 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 Hardware 5 = Water	I = 316 SS Insert DIF = DI Flush APH = All Polyester Hardware PLEAT OPTION SP = Special Pleat (PRMXE only)

