Mem-PLEAT SG & Pur-MAXX SG

Sterilizing Grade Pleated Polyethersulfone Membrane

Clarity
clear solutions

PRODUCT HIGHLIGHTS

- **Validated 0.2 µm** absolute rated membrane cartridge
- **High surface area membrane** offers excellent life and flux rates while providing absolute filtration
- **Absolute-rated dual layer 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
- **Pleat design for greater surface area:** longer service life, fewer change outs and reduced operating costs
- **100% thermally bonded** construction
- **High strength design** allowing for extended use and multi autoclave and hot water sanitization cycles
- **316 SS reinforced** end treatments
- **All materials of construction** are FDA compliant with CFR Title 21 and are bio-safe in accordance with USP Class VI



PRODUCT DESCRIPTION

Strainrite's Sterilizing Grade Pleated Polyethersulfone Membrane Cartridges are engineered to meet the highest standards of microorganism control for sterile fluids. These filter elements are validated for complete removal of Brevundimonas diminuta (ATCC 19146) at test concentrations of 10^7 CFU/cm^2 (Colony Forming Units).

This product is ideally suited for applications where microorganism contamination causes product defects or extra processing time due to increase fluid instability. These cartridges are produced utilizing a unique multi-pleated configuration integrating highly asymmetric and hydrophillic polyethersulfone membrane with exceptional pleat support materials. This novel multi-pleated approach increases cartridge life, strength and durability, and allows our filter cartridges to withstand multiple sterilization cycles without sacrificing product integrity.

These cartridges comply with FDA CFR Title 21 and USP Biological Reactivity for Class VI Plastics. By combining these ultra pure components with the low protein binding features of highly asymmetric hydrophillic polyethersulfone membrane makes them perfect for applications in the biopharmaceutical and bottled water industries.

ABSOLUTE RATED RETENTION
0.2 µm

REINFORCING RING
316 Stainless Steel

OUTSIDE DIAMETER
MPESG: 2.55" (6.48cm) | PRMXESG: 2.7" (6.87cm)

PRODUCTION PROCESS
Thermal Bond

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
6.5 square feet per 10" equivalent

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

PLEAT SUPPORT MATERIAL
Polypropylene

FILTER MEDIA
Polyethersulfone

CAGE/CORE/ENDCAPS
Polypropylene

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

SEALS
Buna N | Fluorocarbon | EPDM | Silicone

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

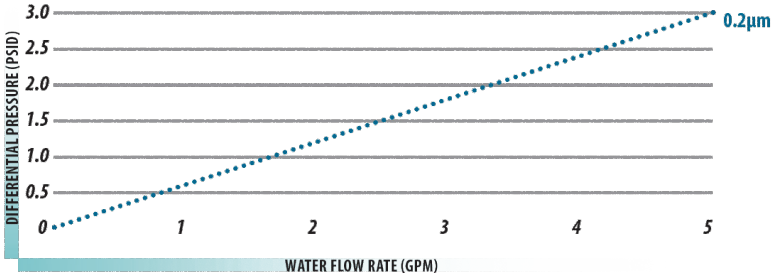
LENGTHS
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

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 us for chemical compatibility

SPECIFICATIONS

SCAN FOR MORE INFO

PERFORMANCE CHARACHTERISTICS



v 1026

ORDER OPTIONS

CARTRIDGE	RATINGS	LENGTHS	PLEAT SUPPORT	END CAP	GASKET/O-RING	CONFIGURATION	GRADE	OPTIONS
MPE Mem-Pleat E (2.55") **PRMXE** I Pur-MAXX E (2.7")	0.2 µm	5" 10" 20" 30" 40"	**PP** = Polypropylene	**C3** = Flat/222 **C6** = Flat/226 **C7** = Fin/226 **C8** = Fin/222	**S** = Silicone **B** = Buna N **V** = Fluorocarbon **E** = EPDM	**--** = 0.2/0.2 **452** = 0.45/.02 **101** = 0.1/0.1 **201** = 0.2/0.1	**SG** Sterilizing Grade	**GI** Gamma Irradiation

MPE / PRMXE	0.2	–	20	PP	C3	V	452	SG	-	MPE0.2-20PPC3V452SG
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CONFIGURATION	CARTRIDGE GRADE	CARTRIDGE OPTIONS	