

# PC Pleated Filters



*Memtrex-PC (MPC) polycarbonate track-etch membrane filters have uniform pore size and distribution to ensure precise filtration characteristics.*

## ■ Features and Benefits

Memtrex-PC (MPC) filters unique polycarbonate track-etch membrane leads the market for precise filtration, broad chemical compatibility, and fast conductivity and TOC rinse-down in ultrapure water systems. MPC filters' precise micron cutoffs and very low pore sizes down to 0.05 micron provide you with high purity filtration for all of your critical electronic, chemical and highly technical processes.

The MPC filter is just one example of our strong commitment to fluid filtration. Whether you require an integrated solution or a single component for a specific application, look to Osmonics first. From one end of the filtration spectrum to the other, Osmonics has a total commitment to fluid purity. Osmonics is your complete source for filters, crossflow membranes, housings, and other filtration equipment.

## ■ Applications

Memtrex-PC filters are specifically designed for ultrapure filtration. Typical applications include:

- Pure Chemical Filtration
- Inks and Dyes
- Ultrapure Water Filtration
- Plating Solutions

## ■ Available Absolute Pore Size Ratings

- 0.05, 0.1, 0.2, and 0.45  $\mu\text{m}$

## ■ Materials of Construction

- Media.....Polycarbonate Track-Etch
- Support Layers.....Polypropylene Microfiber
- Core and Cage.....Polypropylene
- Endcaps and Adapters.....Polypropylene

## ■ Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70 mm)	1.25" (31 mm)	15 ft <sup>2</sup> (1.4 m <sup>2</sup> )

## ■ Operational Limits

- Maximum Forward Differential Pressure.....60 psi (4.14 bar)
- Maximum Reverse Differential Pressure .....30 psi (2.07 bar)
- Maximum Operating Temperature .....180°F (82°C) at 10 psid (0.69 bar) in water

## Sterilization

Memtrex-PC filters may be autoclaved (121°C, 30 minute cycles) or in situ steam sterilized (125°C, 30 minute cycles) for a maximum accumulated exposure of 2 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

## Biosafety

The component materials of Memtrex-PC filters are suitable for use in articles intended for repeated food contact as specified in the United States Code of Federal Regulations, Title 21. Memtrex-PC filters meet the test criteria for USP24 class VI-121°C Plastics and pass the MEM Elution Cytotoxicity Test.

## Extractables

Aqueous extracts from Memtrex-PC filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

## Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MPC	85 = 0.05mm 91 = 0.1mm 92 = 0.2mm 94 = 0.45mm	1 = 10 Inch 2 = 20 Inch 3 = 30 Inch 4 = 40 Inch	A=Open End Gasket B=120 O-Ring C=213 O-Ring E=222 O-Ring F = 226 O-Ring J = 020 O-Ring Q = 222 O-Ring Stainless Steel Insert Z = 226 O-Ring Stainless Steel Insert	A=Open End Gasket B=120 O-Ring C=213 O-Ring G=Closed End Cap H = Fin Adapter	B=Buna-N E=EPDM S=Silicone T=Teflon* Encapsulated (Only in 222 and 226) V = Viton*

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### For More Information:

Call Osmonics Filtration and Separation Group at (952) 933-2277 or (800) 848-1750, or visit [www.osmonics.com](http://www.osmonics.com)



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## Flow Performance in Clean Water

