

# Memtrex\* PC

## FACT SHEET

### Pleated Filters with Polycarbonate Track-etch Membrane



Figure 1: Memtrex PC Filters

#### Description and Use

Memtrex PC (MPC) filters' (Figure 1) 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 Veolia first. From one end of the filtration spectrum to the other, Veolia has a total commitment to fluid purity. Veolia is your complete source for filters, crossflow membranes, housings, and other filtration equipment.

#### Typical Applications

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

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

#### General Properties

Memtrex PC filters are available the following absolute pore size micron rating: 0.05, 0.1, 0.2, and 0.45  $\mu\text{m}$ . Tables 1, 2, 3, and 4 show further details on materials of construction, dimensions, operational limits, and flow performance.

Table 1: Materials of Construction

Media	Polycarbonate Track-etch Membrane
Support Layer	Polypropylene
Core and Cage	Polypropylene
Endcaps and Adapters	Polypropylene

Table 2: Dimensions

Nominal O.D	Nominal O.D	Effective Filtration Area
2.75" (70mm)	1.25" (31mm)	17ft <sup>2</sup> (1.6 m <sup>2</sup> )

Table 3: Operational Limits

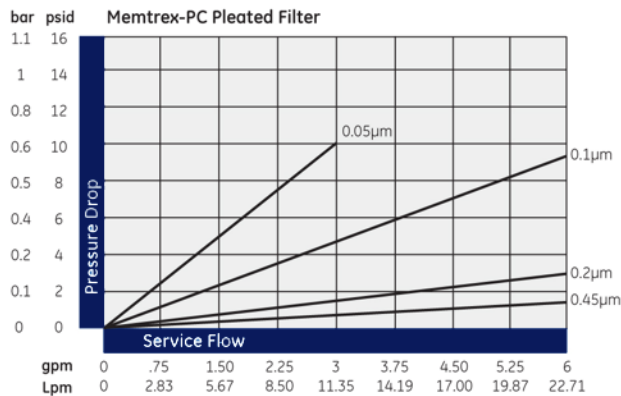
Maximum Forward Differential Pressure	60 psi (4.1 bar) @ 70°F (21°C)
Maximum Reverse Differential Pressure	60 psi (4.1 bar) @ 70°F (21°C)
Maximum Operating Temperature	180°F (82°C) at 10 psid (0.69 bar) in water

#### Additional Information

- The filters may be sanitized with compatible chemical agents.
- Memtrex PC filters meet the test criteria for USP

- class VI-121°C plastics.
- Aqueous extracts from Memtrex PC filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- Veolia filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia distributor for more information.
- Table 5 provides additional ordering information.

**Table 4: Flow Performance in Clean Water<sup>1</sup>**



<sup>1</sup> Data based on 10" length filter

**Table 5: Ordering Information**

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MPC	85 = 0.05 µm 91 = 0.1 µm 92 = 0.2 µm 94 = 0.45 µm	1 = 10 inch (25cm) 2 = 20 inch (51cm) 3 = 30 inch (76 cm) 4 = 40 inch (102 cm)	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 Support Ring Z = 226 O-Ring Stainless Steel Support Ring	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 <sup>2</sup> Encapsulated (Only in 222 and 226) V = Viton <sup>2</sup>

<sup>2</sup>Teflon and Viton (Registered trademarks of DuPont)



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