Polyflow® Membrane

Polypropylene membrane cartridges for microelectronics

Polyflow® Membrane cartridges are optimized for use in microelectronics applications such as bulk chemicals and photoresists. The all-polypropylene construction is an economical alternative to fluoropolymer-based cartridges.

Every cartridge is fabricated in a clean room environment, pre-flushed with 18 megohm-cm ultrapure DI water, and 100% integrity tested in an ISO-certified facility.

Contact Information

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domnick hunter
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Benefits

- High-retention membrane
- Wide range of configurations and ratings
- 100% integrity tested

Applications

- Bulk photoresist
- Bulk electronics grade chemicals

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Polyflow® Membrane

SPECIFICATIONS

Materials of Construction

Membrane: Polypropylene
Support layers: Polypropylene
Structure: Polypropylene
All components are thermally bonded to ensure integrity and to reduce extractables.

Effective Filtration Area

7.7ft² (0.72m²) 0.04 pore size per 10" (250mm) cartridge

6.6ft² (0.61m²) 0.07 pore size per 10" (250mm) cartridge*

7.7ft² (0.72m²) 0.1 pore size per 10" (250mm) cartridge

7.7ft² (0.72m²) 0.2 pore size per 10" (250mm) cartridge
* Double layers of membrane

Metals Extractables*

<50ppb (total)
*In a 10% HNO_3 extraction

Maximum Differential Pressure/Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)*
40psid (2.8bar) @ 180°F (82°C)

Reverse: 40psid (2.8bar) @ 75°F (24°C)
60 psid (4.1 Bar) @ 75°F for 0.04µm

Cleanliness (particle shedding)

Wet-packed: <1 particles/ml >0.2µm after 10gal at 1gpm
Data from bag open and installed, no additional installation flushing.

TOC/Resistivity Rinse-up (wet-packed)

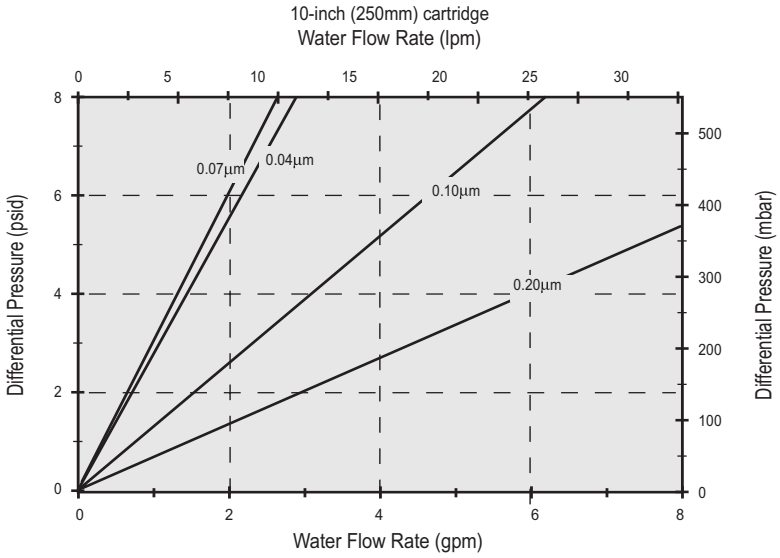
TOC rinse-up to background plus 5ppb of feed after 40gal @ 1gpm.

Resistivity rinse-up to background minus 0.2megohm-cm of feed after 40gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	**gpm/psid**	**lpm/100mbar**
0.04	0.41	2.2
0.07	0.35	1.9
0.1	0.7	3.8
0.2	1.8	10

* Per 10-inch (250mm) cartridge equivalent.



Ordering Information

Each cartridge is identified with a product number, pore size and lot number for traceability.

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Styles	
CODE	**DESCRIPTION**
1	No Insert (Std.)
5	Encapsulated Stainless Steel
6	Encapsulated Polysulfone
A	1/2″ Shortened on 222 Fitting

End Fitting	
CODE	**DESCRIPTION**
0	DOE (CUNO®)
1	DOE
2	226 | Flat
3	222 | Flat
7	226 | Fin
8	222 | Fin

Nominal Length		
CODE	**INCHES**	**mm**
10	10″	250
20	20″	500
30	30″	750
40	40″	1000

Filter Rating	
CODE	**MICRON**
924	0.04
001	0.1
002	0.2
101	0.07

Gasket/O-Rings	
CODE	**MATERIAL**
0	Buna-N
1	EPDM
2	Silicone
4	Viton®
5*	FEP Encapsulated Viton®
N	None

*O-Rings only

Thickness (Gaskets Only)		
CODE	**THICKNESS**	
	INCHES	**mm**
1	0.200″	5
2	0.125″	3
4	(1) 0.200″	5
	(1) 0.125″	3
N	No Gasket	

Treatment	
CODE	**OPTIONS**
Blank	Standard
EW	Wet Packed

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