

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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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.

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.

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% HNO₃ 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)

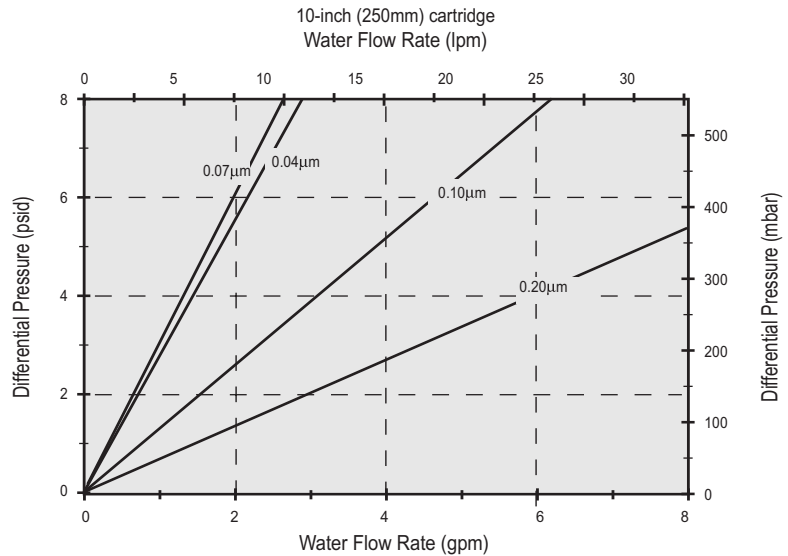
Wet-packed: <1 particles/ml >0.2µm after 10gal at 1gpm

Data from bag open and installed, no additional installation flushing.

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		End Fitting		Nominal Length			Filter Rating		Gasket/O-Rings		Thickness (Gaskets Only)			Treatment	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	INCHES	mm	CODE	MICRON	CODE	MATERIAL	CODE	THICKNESS		CODE	OPTIONS
												INCHES	mm		
1	No Insert (Std.)	0	DOE (CUNO [®])	10	10"	250	924	0.04	0	Buna-N	1	0.200"	5	Blank	Standard
5	Encapsulated Stainless Steel	1	DOE	20	20"	500	001	0.1	1	EPDM	2	0.125"	3	EW	Wet Packed
		2	226 Flat	30	30"	750	002	0.2	2	Silicone	4	(1) 0.200"	5		
6	Encapsulated Polysulfone	3	222 Flat	40	40"	1000	101	0.07	4	Viton [®]		(1) 0.125"	3		
A	1/2" Shortened on 222 Fitting	7	226 Fin						5*	FEP Encapsulated Viton [®]	N	No Gasket			
		8	222 Fin						N	None					

*O-Rings only

Specifications are subject to change without notification.
 For User Responsibility Statement, see www.parker.com/safety
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DS_ME_Polyflow Membrane Rev. A



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for all your filter requirements