

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



ENGINEERING YOUR SUCCESS.

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)

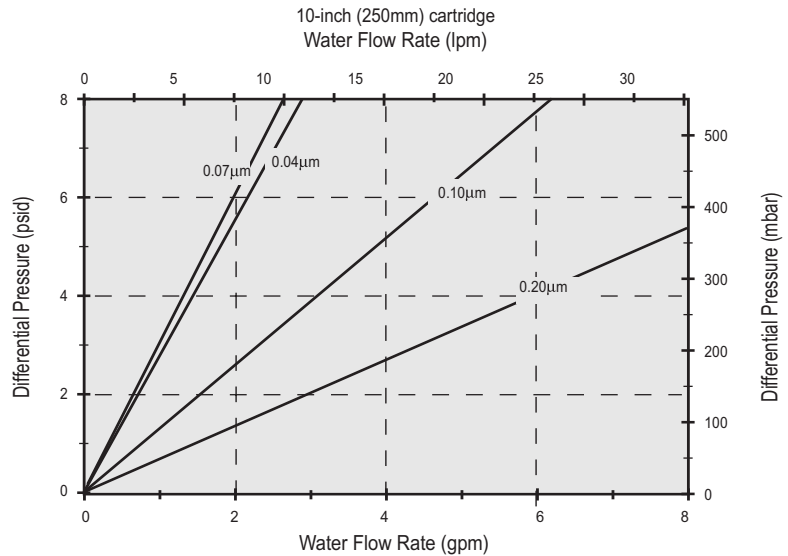
Wet-packed: <1 particles/ml >0.2µm after 10gal at 1gpm

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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 Cuno is a registered trademark of 3M Company.

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Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)