

Polyflow® Membrane-Select

High-performance polypropylene membrane cartridges for microelectronics

Polyflow® Membrane-SELECT 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.

The innovative SELECT pleating provides increased performance over competitive cartridges. Membrane area is increased by about 30% while flows are more than 50% higher within the same footprint. The result is one of the longest-lasting cartridges on the market.

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

Parker-Hannifin Corporation
domnick hunter
Process Filtration - N.A.
2340 Eastman Avenue
Oxnard, California, USA 93030

toll free +1 877 784 2234
phone +1 805 604 3400
fax +1 805 604 3401
dhpsales.na@parker.com

www.parker.com/processfiltration

Benefits

- High-retention membrane
- Unique SELECT pleating technology
- High flow rates
- Wide range of configurations and ratings
- 100% integrity tested

Applications

- Bulk photoresist
- Bulk electronics grade chemicals



ENGINEERING YOUR SUCCESS.

Polyflow® Membrane-Select

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

11.5ft² (1.07m²) 0.04 pore size per 10" (250mm) cartridge

8.4ft² (0.78m²) 0.07 pore size per 10" (250mm) cartridge*

10.1ft² (0.94m²) 0.10 pore size per 10" (250mm) cartridge

9.8ft² (0.88m²) 0.20 pore size per 10" (250mm) cartridge

* Double layers of membrane

Metals Extractables*

<50ppb (total)

*In a 10% HNO₃ extraction

Maximum Differential Pressure/Temperature

Forward: 70psid (4.8bar) @ 68°F (20°C)*
40psid (2.8bar) @ 158°F (70°C)

Reverse: 30psid (2.1bar) @ 68°F (20°C)
60 psid (4.1 Bar) @ 68°F for 0.04µm

Cleanliness (particle shedding)

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

Data as 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.

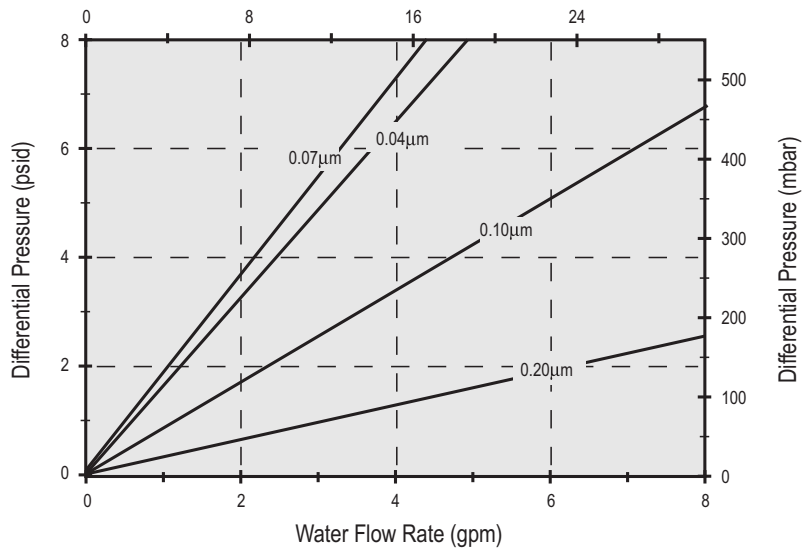
Resistivity rinse-up to background minus 0.2megohm-cm of feed after 40gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.04	0.65	3.6
0.07	0.55	3.0
0.1	1.2	6.5
0.2	3.0	17

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

Per 10-inch (250mm) Cartridge
Water Flow Rate (lpm)



Ordering Information

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

MS - [] **0** [] [] - [] [] [] - [] - **E** []

Styles		End Fitting		Length			Filter Rating		O-Rings		Treatment	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	INCHES	mm	CODE	MICRON	CODE	MATERIAL	CODE	OPTIONS
1	No Insert (Std.)	2	226 Flat	10	10"	250	924	0.04	0	Buna	Blank	Standard
5	Encapsulated Stainless Steel	3	222 Flat	20	20"	500	001	0.1	1	EPDM	W	Wet Pack
6	Encapsulated Polysulfone	7	226 Fin	30	30"	750	002	0.2	2	Silicone		
A	1/2" Shortened on 222 Fitting	8	222 Fin	40	40"	1000	101	0.07	4	Viton®		
									5	FEP Encapsulated Viton®		
									N	None		

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety
Polyflow is a registered trademark of Parker-Hannifin Corporation.
Viton is a registered trademarks of E.I. DuPont de Nemours & Co., Inc.

© 2008 Parker-Hannifin Corporation
domnick hunter Process Filtration - N.A.
All Rights Reserved

