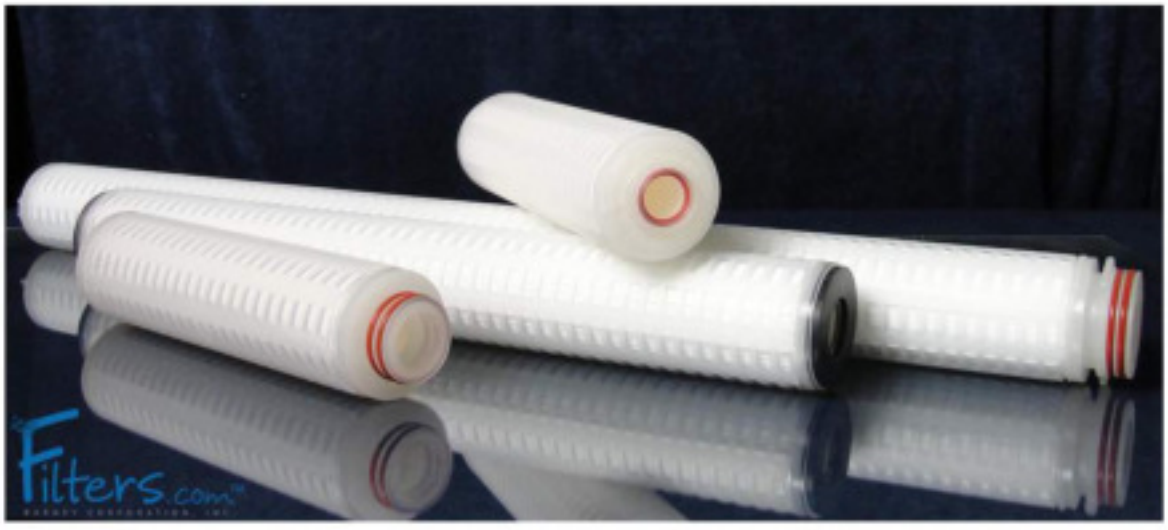
PurePleat by Filters.com

Water Grade Polysulfone Membrane Cartridges ***FWGPSC***



Applications

- RO Pre/Post Filtration
- DI Water
- Plating Solutions
- Specialty Chemicals
- Water & Wastewater
- Food & Beverage
- Bottled Water
- Microelectronics
- Process Water
- Cosmetics

Features

- Absolute retention ratings from 0.3 to 1.0 microns
- 6.0 square feet (0.56 m2) of media surface area per ten inch length for optimal performance
- Highly tapered asymmetric pore structure provides excellent flow rate and dirt holding capacity
- Cost effective absolute filtration for less critical applications – not integrity tested
- Rigid, molded cage protects pleated media and strengthens structural stability
- Manufactured in a state-of-the-art white room for high purity
- Complies with Food & Drug Administration's CFR criteria for food & beverage contact
- Meets USP Class VI Biological Test for plastics
- Available in common end cap configurations to fit most filter housings
- Produced in continuous lengths up to 40 inches

Specifications

Pore Sizes 0.03, 0.05, 0.1, 0.2, 0.45, 0.65, 1.0 microns absolute retention

Nominal Lengths 9.75" (24.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm)

Outside Diameter 2.67" (6.78 cm)

Inside Diameter 1.0" (2.54 cm)

Media Surface Area 6.0 sq. ft. (0.56 m2) per 10 inches filter length

Gaskets/O-rings Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton (O-Rings only)

Materials of Construction

Filter Media:	Polysulfone
Outer Cage:	Polypropylene
Inner Core:	Polypropylene
End Caps:	Polypropylene

Maximum Operating Temperature 176°F (80°C)

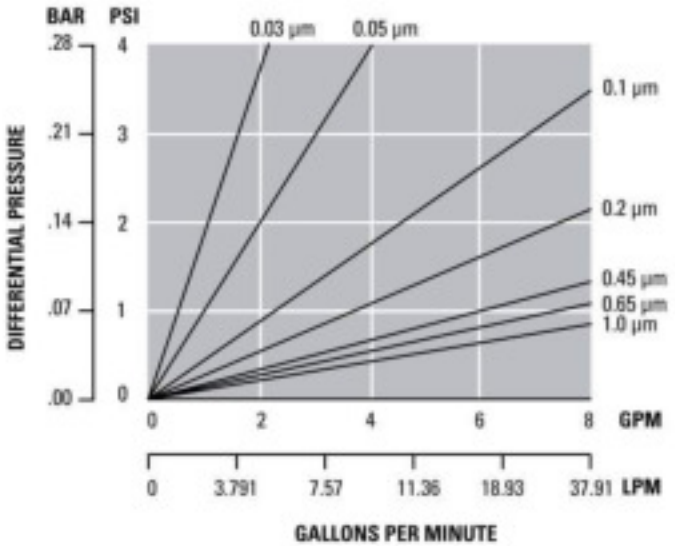
Recommended Change-out Differential Pressure
35 psid (2.4 bar)

Maximum Differential (Collapse) Pressure
75 psid @ 70°F (5.2 bar @ 21°C), 40 psid @ 176°F (2.8 bar @ 80°C)

Sanitization and Sterilization
Hot water at 175°F (80°C) at 5 psid for 30 minutes
In-line steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes
Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance
All materials comply with Food and Drug Administration Title 21 of the Code of Federal Regulations 174.5, 177.1520, and 177.1630. All components meet current USP Class VI Plastics biological reactivity tests.

Flow vs. Pressure Drop



This chart represents typical water flow per 10" cartridge length. The test fluid is water at ambient temperature. Extrapolation for multiple elements tends to be linear, but as flows increase the ΔP of the housing becomes more apparent.

Ordering Guide (Example: FWGPSC0.2-10S4S)

FWGPSC	0.2	–	10	S4	S
PRODUCT CODE	MICRON		LENGTH	END CAP CONFIGURATION	GASKET / O-RING
FWGPSC	0.03 0.05 0.1 0.2 0.45 0.65 1.0		9.75" 10" 19.75" 20" 29.25" 30" 40"	S1 = DOE S3 = 222 w/ Fin End S4 = 222 w/ Flat End S5 = 226 w/ Fin End S6 = 226 w/ Flat End S7 = Internal O-ring with Recessed Plug S9 = Internal O-ring on both ends	B = Buna N E = EPR S = Silicone V = Viton T = Teflon Encapsulated Viton (O-ring only)

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