

Filter Data Sheet

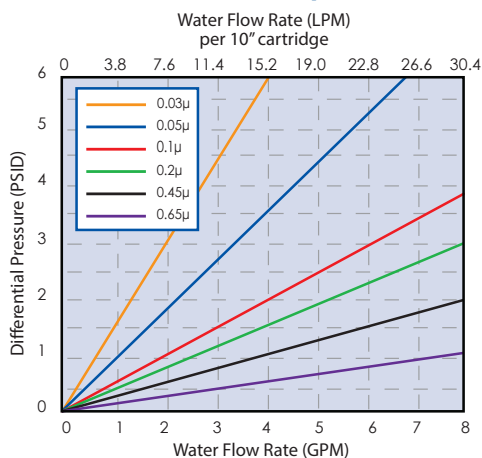
High Purity - WaterClear PES

Hydrophilic Polyethersulfone (PES) Membrane Cartridges for Water Purification Applications

WaterClear PES Cartridges are constructed of continuous length* polyethersulfone membrane with polypropylene supports. This combination offers extremely cost effective membrane filtration for aqueous solution applications. WaterClear cartridges deliver excellent flow rates at a low pressure drops.



Flow Rate vs Pressure Drop



Typical Applications

Deionized Water Systems
General-Use Water Filtration
Liquid Clarification
Chemical Filtration

* Continuous length up to 30" (40" cartridges have (2) 20" segments).

Ordering Information

WCPES	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.03		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.05		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		HP = Heavy Poly Core
	0.1		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		R = 18 Megohm Rinse
	0.2		40" (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton®		CS = 316ss Compression Spring
	0.45				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®		
	0.65				16 = 213 Internal O-Ring			

Construction Materials

Membrane Polyethersulfone
Support Media Polypropylene
End Caps Polypropylene
Center Core Polypropylene
Outer Support Cage Polypropylene
O-Rings/Gaskets Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

Sanitization/Sterilization

Filtered Hot Water 80°C for 30 min.
Steam Sterilization 121°C for 30 min., multiple cycles

Chemicals: Cartridges are chemically compatible with most chemicals and sanitizing agents.

Note: Stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.70 inches (7.0 cm) nominal

Maximum Recommended Operating Conditions

Temperature 176°F (80°C)

Maximum Differential Pressures

Forward 50 PSI (3.4 bar) at 20°C
Reverse 40 PSI (2.7 bar) at 20°C

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required.