

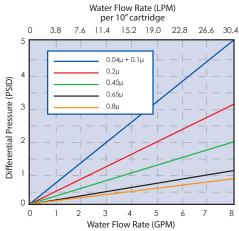
Filter Data Sheet

High Purity - Electronics Grade PES

Hydrophilic Polyethersulfone (PES) Membrane for Electronics Applications

Electronics Grade PES Cartridges are designed to meet the special needs of the electronics and high purity chemical industries. GGPES membrane cartridges are resistant to most acids and bases and are compatible with most sanitizing agents. The GGPES series delivers high flowrates at low pressure drops; making it an excellent choice for Ultra-Pure water systems. Each cartridge is flushed to 18 MΩ with UPW and 100% integrity tested to deliver ultraclean effluent as well as ultra-low extractables. The Extended Area option (GGPESX) offers up to 40% more surface area. This additional area results in significant increases in flowrate and loading capacity in the same footprint.

Flow Rate vs Pressure Drop



Data represents GGPES. For GGPESX options, multiply given flowrate by 1.4.

Typical Applications

- Ultra-Pure Water Systems
- Fine Chemical Filtration
- · Photoresist Chemicals

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.

Ordering Information

GGPES	Rating (μ)	Α	Length	С	End Cap Style	O-Rings/Gaskets	-	Adders
GGPESX	0.04		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.1		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		CS = 316ss Compression Spring
	0.2		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		R = 18 Megohm Rinse
	0.45		40" (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton®		
	0.65				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®		
	0.8				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		

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.