

optimum filter

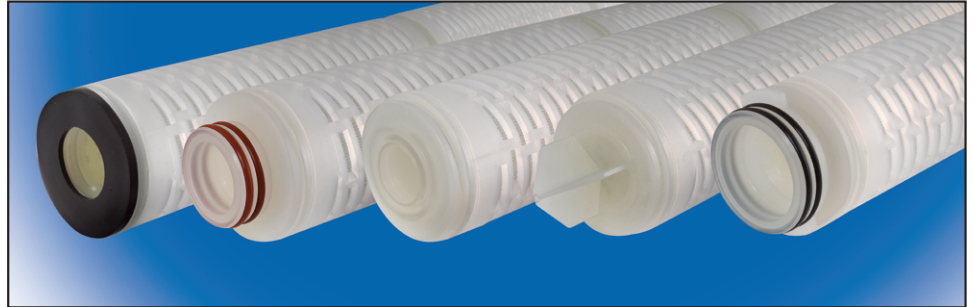
Filter Data Sheet

High Purity – Food and Beverage Grade PES

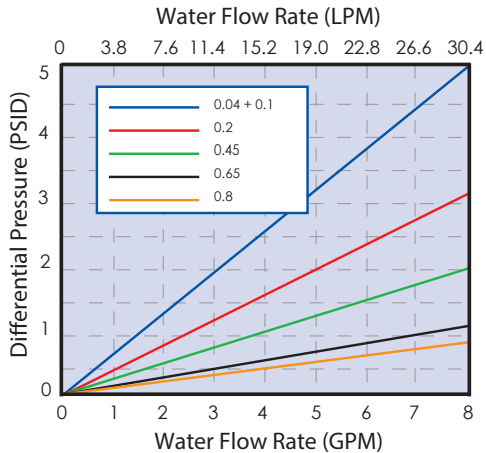
Hydrophilic Polyethersulfone (PES) Membrane Developed for the Food and Beverage Industry

Food and Beverage Grade PES Cartridges

have been designed to comply with all FDA requirements for the food industry. Polyethersulfone is a low protein binding membrane and therefore a good choice for fermented beverage applications. Food and Beverage Cartridges are flushed with DI water to remove manufacturing debris and extractable. Each cartridge module is tested to ensure integrity.



Flow Rate



Typical Applications

Wine
Beer
Juices
Soft Drinks
Bottled Water

Construction Materials

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

GFPEs	Pore Size	A	Length	C	End Cap Code	O-Rings/Gaskets	-	Adders
	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		
	0.2		30 (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	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			

3725 Interpark Drive • Colorado Springs, CO 80907

Phone: 719-260-5694 • Fax: 719-260-5944 • www.optimumfilter.com