



## Filter Data Sheet

### High Purity – Food and Beverage Grade PES

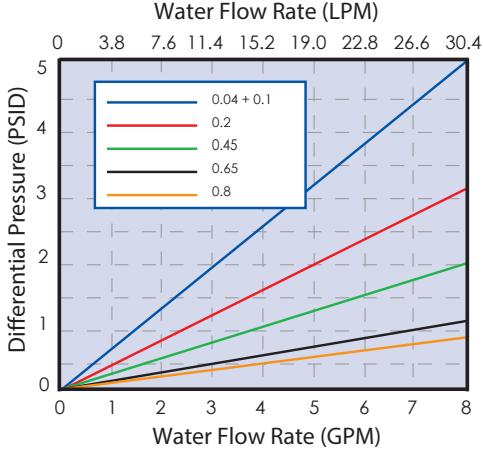
Hydrophilic Polyethersulfone (PES) Membrane Developed for the Food and Beverage Industry

#### 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

#### 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](http://www.optimumfilter.com)