

## Filter Data Sheet

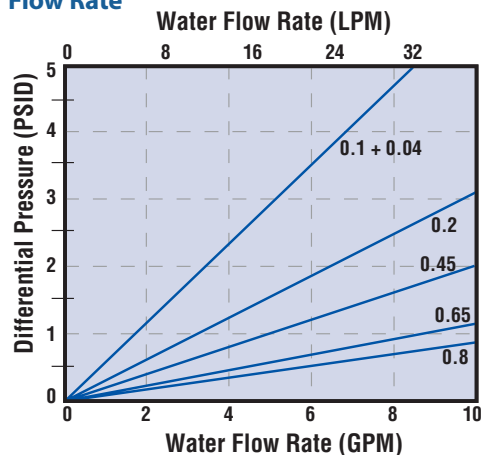
### High Purity – Electronics Grade PES

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. Polyethersulfone membrane cartridges are resistant to most acids and bases and capable of handling strong sanitization agents. High flow rates make polyethersulfone a good choice for DI water systems. This membrane will also handle elevated process temperatures in compatible fluids. Each cartridge is flushed with 18 megohm high purity water to minimize extractables. Each cartridge is also individually integrity tested.



#### Flow Rate



#### Typical Applications

Deionized Water Systems  
Fine Chemical Filtration  
Electronics-Photoresist

#### Ordering Information

| GEPES | 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 |                               |                            |

#### Construction Materials

**Membrane** .....Polyethersulfone (PES)  
**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 Minutes  
**Steam Sterilization**.....121°C for 30 min, multiple cycles

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

**Note:** Stainless 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:

2.75 inches (7.0 cm) nominal

#### Maximum Recommended Operating Conditions

**Maximum 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.