

# Pharmaceutical Grade Polyethersulfone Membrane Filter Cartridge



- Cartridge is a validated hydrophilic polyethersulfone (PES) membrane over a non-woven polypropylene support layer
- Supported single layer membrane ensures strength, while exhibiting low pressure drop and exceptionally high flow rates
- PES filters are fully validated as sterilizing grade in accordance with HIMA and ASTM F838-05 guidelines and ship with validation certificate
- Filter components meet USP Class VI Biological Tests for Plastics, ensuring that no surfactants or coatings interfere with the application, making these ideal for use in the food and beverage industry
- Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC, 1935/2004, and/or 10/2011

## CARTRIDGE SPECIFICATIONS

### Dimensions

Diameter (OD)	2.78" (7.0 cm)
Length (in)	10, 20, 30, 40

### Materials

Cartridge	Polypropylene caps, core and cage
Media	Polyethersulfone (PES) Membrane
Seals	EPDM, Silicone or Viton® o-rings and gaskets

### Operating Parameters

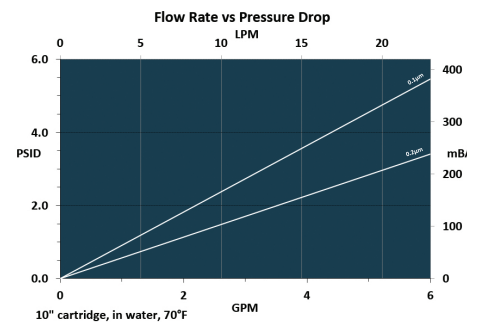
Maximum Temperature	176°F (80°C)
Maximum Differential Pressure @ 20°C	72 psi (5.0 bar)
Filtration Efficiency	100% Absolute
Toxicity	Non-toxic by USP Class VI Biological test for plastics
Validation	HIMA Bacterial challenge test methods (10 <sup>7</sup> organisms/cm <sup>2</sup> )

### Sterilization

Hot water sanitization at 85°-95°C for 30 minutes or steam sanitization at 134°C for 30 minutes; 100 cycles

### Integrity Test / Micron Rating

Pore Size	Minimum Water Bubble Point @ 20°C	Diffusional Flow (cc/min) @ Test Pressure per 10" length in Water
0.1 µm	≥ 70 psi (≥ 4.8 bar)	≥ 24 @ 58 psig (4.0 bar)
0.2 µm	≥ 46 psi (≥ 3.2 bar)	≥ 21 @ 36 psig (2.5 bar)



## ORDERING INFORMATION

### Catalog Number and Description

FCPG	Single Layer Polyethersulfone (PES) Filter Cartridge
X	Cartridge Code <b>1</b> = single open end w/ 213 internal o-ring <b>0</b> = 2-222 o-rings <b>5</b> = 2-222 o-rings w/spear end <b>7</b> = 2-226 o-rings locking tabs w/ spear end <b>F</b> = double open end
XX	Length (in): <b>10</b> = 10, <b>20</b> = 20, <b>30</b> = 30, <b>40</b> = 40
S2	Micro rating: <b>S1</b> - 0.1 µm, <b>S2</b> - 0.2 µm

To configure your order number, replace the X with one of the numbered or lettered options beside it. Note: Not all part number combinations are available; consult Technical Support for assistance.