

## FiberFlo PM Pleated Filters

### Polypropylene Pleated Cartridge Filters

FiberFlo “PM” polypropylene cartridges are absolutely rated cartridge filters. Made of polypropylene membrane, the filters have an increased surface area with excellent flow rates per 10 inch lengths.

Their compatibility with a broad range of chemicals makes them suitable for the filtration of acids, bases, water and solvents. The hydrophobic nature of the membrane makes “PM” filters an economical alternative to polytetrafluorethylene (PTFE) membrane filters in air, process gas and vent filter applications.

### Dependable Performance

FiberFlo “PM” cartridges consist of a polypropylene membrane with thermally bonded polypropylene components to provide a very durable filter with a single material of construction.

The unique hydrophobic polypropylene membrane contains no surfactants or surface wetting agents. Manufactured under QSR, samples from each manufacturing lot are tested by water intrusion to ensure consistent and reliable performance, and rinsed with 17+ magohm cm water to remove any manufacturing debris.

All FiberFlo “PM” cartridges pass USP XXI class VI plastic tests as well as tests for cytotoxicity, hemolysis and pyrogenicity.

### Standard Features

- Hydrophobic membrane
- Absolute rated
- Homogenous high purity media
- Rigorous quality standards
- Economical filtration
- Long service life



### Applications

- Final filtration for high purity process chemicals
- Economical air or process gas filtration
- Tank vent filtration

Cartridge Dimensions	
Nominal Length*	Filtration Area
10 inch	7 ft <sup>2</sup> / 0.65 m <sup>2</sup>
20 inch	14 ft <sup>2</sup> / 1.30 m <sup>2</sup>
30 inch	21 ft <sup>2</sup> / 1.95 m <sup>2</sup>
40 inch	28 ft <sup>2</sup> / 2.60 m <sup>2</sup>

Outside Diameter: 2.75 in / 7.0 cm

\*Actual overall length of cartridge will vary depending on configuration. Cartridge performance is as specified regardless of configuration.

# Technical Data

## FiberFlo PM Pleated Cartridge Specifications

### Product Specifications

Filter Media:	Pleated Polypropylene Membrane
Membrane Support, Core Tube and End Caps:	Polypropylene
Sealing Technology:	Thermal Bonding
Endotoxins:	Less than 0.25 EU/ml
Biosafety:	All components meet or exceed USP Class VI-121°C (250°F) plastic tests
Oxidizable Substances:	Filtrate meets or exceeds USP XXI requirements for purified water after 1 liter flush
O-Ring:	Silicone
O-Ring Color:	Red
Max. Differential Pressure	Forward: 50 psi (3.4 bar) at 68°F (20°C) - Reverse: 40 psi (2.7 bar) at 68°F (20°C)
Pore Sizes	0.10 and 0.20 microns
Max. Operating Temperature	180°F (82°C)

## Flow Rates

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10-inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable; but as flows increase, the pressure drop of the housing becomes more apparent.

### Typical Flow Rate

Pore Size	0.10 µm	0.20 µm
GPM	0.75	2.75
SCFM	> 22	> 32
Pore Size Rating (gas)	0.01 µm	0.02 µm



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