



Graver Technologies

Filtration | Separation | Purification

# PMC™ Polypropylene Filter Series

## Economically Efficient Pleated Filter Cartridges

This cost effective, disposable filter element can be used for a wide range of applications. The filter is constructed of pleated polypropylene filter media with high surface area that allows for greater system flow rate.

### Filter Features–Benefits

- Micron ratings from 0.2 to 50 µm– Broad application range
- High Filtration Efficiency– 90% (Beta 10) rated
- Meets current USP Class VI biological test for plastics
- FDA listed materials of construction
- Fixed pore structures– Resists unloading of captured contaminant
- Polypropylene Construction– Inert to many process fluids
- Various Gasket/O-Ring materials– Compatible with a variety of fluids
- Economically efficient filtration
- Manufactured in continuous lengths up to 40 inches

### Filter Specifications

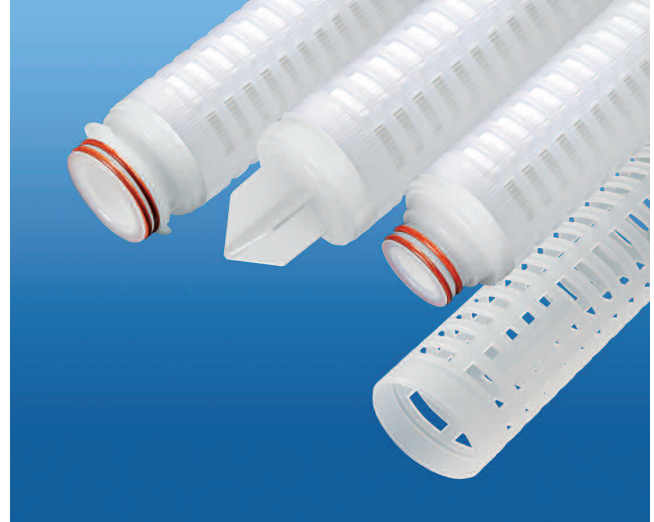
Media:	Polypropylene
Inner core:	Polypropylene
End caps:	Polypropylene
Cage:	Polypropylene
Gaskets/O-Rings options:	Buna-N, EPDM, Silicone, Viton, Teflon Encapsulated Viton (O-Rings only)
Micron ratings:	0.2, 0.25, 0.45, 0.5, 1.0, 2.0, 5.0, 10, 25, 50µm

\*Other micron rated media available upon request

### Dimensions and Operating Parameters

Nominal lengths:	9.75", 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter:	2.7" (6.86 cm)
Inside diameter:	1.1" (2.79 cm)
Maximum operating temperature:	176 °F (80°C)
Differential pressure:	75 psid @ 70°F (5.2 bar @ 21°C) 40 psid @ 176°F (2.8 bar @ 80°C)

Recommended change-out pressure for disposal: 35 psid (2.4 bar)



### Filter Removal Efficiency

Beta Ratio Efficiency	Beta 50 98%	Beta 10 90%
0.2 micron	0.28	0.20
0.25 micron	0.35	0.25
0.45 micron	0.6	0.45
0.5 micron	0.7	0.5
1.0 micron	1.5	1.0
2.0 microns	2.7	2.0
5.0 microns	7.0	5.0
10.0 microns	12.0	10.0
25.0 microns	32.0	25.0
50.0 microns	70.0	50.0

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

### FDA compliance

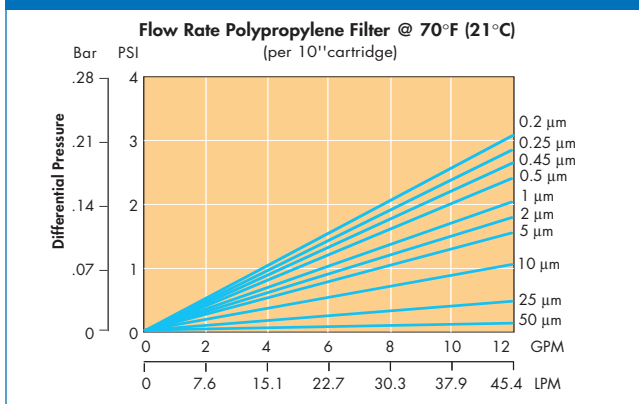
All polypropylene material used in manufacturing complies with the regulations of the FDA title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1630, as applicable for food and beverage contact.

## PMC Nomenclature Information

<p style="text-align: center;"><b>PMC</b></p> <p><b>Filter Type</b> PMC Series Filters</p>	<b>2</b>	<b>-20</b>	<b>P8</b>	<b>V</b>
		<p><b>Nominal Length (inches)</b></p> <p>-9.75 -10 -20 -30 -40</p>		<p><b>Gasket or O-Ring</b></p> <p><b>S</b> Silicone <b>B</b> Buna-N <b>E</b> EPDM <b>V</b> Viton <b>T</b> Teflon encap. Viton (O-Rings only) <b>T</b> Teflon (Gasket only)</p>
<p><b>Retention Rating (microns)</b></p> <p>0.2 0.25 0.45 0.5 1 2 5 10 25 50</p>			<p><b>End Configuration</b></p> <p><b>P</b> Double Open End <b>P2</b> 226/Flat Single Open End <b>P3</b> 222/Flat Single Open End <b>P7</b> 226/Fin Single Open End <b>P8</b> 222/Fin Single Open End <b>AM</b> Single open end, internal O-Ring <b>NPC</b> Double open end, internal O-Ring</p>	

Example: PMC 2-20 P8V

### PMC FLOW RATE



### For more information

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