

# Purtrex\*

## FACT SHEET

### Melt blown depth filter for general industrial use



#### Features and Benefits

- Exceptional value for general applications
- Progressive graded density captures particles throughout the entire filter
- Long life and lower change-out frequency
- Exceptional dirt holding capacity
- Pure polypropylene construction
- No wetting agents, solvents, antistatic agents, or binders
- Made with 90% to 100% pre-consumer recycled polypropylene material to reduce landfill waste
- Meets FDA requirements for food and beverage contact
- Made in the USA

#### Applications

- General industrial use
- Potable water filtration
- Chemical filtration
- Plating baths
- Amine filtration

#### Specifications

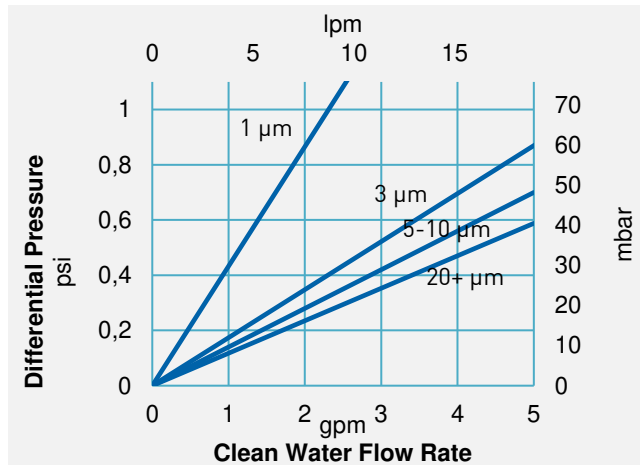
**Table 1: Specifications and performance information**

<b>Ratings</b>	1, 3, 5, 10, 20, 30, 50, 75 microns (nominal)	
<b>Inner Diameter (nominal)</b>	1 in (2.5 cm)	
<b>Outer Diameter</b>	2.5 in (6.4 cm)	
<b>Lengths</b>		
9 3/4 in (24.8 cm)	29 1/4 in (74.3 cm)	
10 in (25.4 cm)	30 in (76.2 cm)	
19 1/2 in (49.5 cm)	40 in (101.6 cm)	
20 in (50.8 cm)	50 in (127.0 cm)	
<i>Longer lengths up to 70 in may be available upon request</i>		
<b>Materials of Construction</b>		
Filter Media	Polypropylene	
Adapters	Polypropylene	
Elastomer	Buna, EPDM, Silicone, Viton <sup>1</sup> Santoprene <sup>2</sup> (flat gasket only)	
<b>Performance Conditions</b>		
Maximum Pressure Drop	35 psid (2.4 bar) @ 100°F (38°C)	
Recommended Change-Out Pressure Drop:	20 psid (1.4 bar) @ 77°F (25°C)	

## Efficiency Information

**Table 2: Removal efficiency based on a modified ASTM 795 test procedure**

Micron Rating	Removal rating ( $\mu\text{m}$ ) at various efficiencies		
	90.0%	99.0%	99.9%
1 $\mu\text{m}$	<i>Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency.<sup>3</sup></i>		
3 $\mu\text{m}$			
5 $\mu\text{m}$			
10 $\mu\text{m}$			
20+ $\mu\text{m}$			



**Graph 1: Purtrex clean water flow rate based on a 10 in length filter**

## Quality

Purtrex filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

## Certifications

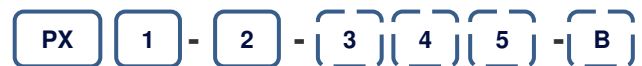
- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 61 criteria
- ISO 9001 criteria

Veolia filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia representative for more information.









## Ordering Information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration. Use “-B” if you would like bulk packaging.

**Example:** PX 05-40-EHB



**Table 3: Ordering information**

	1	2	3	4	5
Type	Micron Rating (nominal)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
PX	01 = 1 µm	9 3/4 in (24.8 cm)	 E = 222 O-Ring	 H = Fin	B = Buna E = EPDM P = Santoprene <sup>2</sup> (flat gasket only) S = Silicone V = Viton <sup>1</sup>
	03 = 3 µm	10 in (25.4 cm)	 L = Extended Core	 K = Self Seal Spring	
	05 = 5 µm	19 1/2 in (49.5 cm)			
	10 = 10 µm	20 in (50.8 cm)	 X = Standard Plain End (no gasket)	 S = Solid End	
	20 = 20 µm	29 1/4 in (74.3 cm)			
	30 = 30 µm	30 in (76.2 cm)			
	50 = 50 µm	40 in (101.6 cm)	 Y = Flat Gasket	 Y = Flat gasket	
	75 = 75 µm	50 in (152.4 cm)			
		<i>Longer lengths up to 70 in may be available upon request</i>			

<sup>1</sup> Viton is a registered mark of The Chemours Company.

<sup>2</sup> Santoprene is licensed to Advanced Elastomer Systems, L.P.

<sup>3</sup> Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.

