

Ultrapolylea® PP

Depth filter for particle removal from aqueous solutions, water and gases with a nominal retention rate. The filter can be used accordingly as a pre- or final filter, especially when economical high efficiency is required.

Product Description

The Ultrapolylea® depth filter is a pleated all-polypropylene filter with a particle retention rating extending from 0.1 µm to 30 µm. This filter element distinguishes itself with a high dirt holding capacity as well as a high flow rate.

Features

All components fulfill FDA requirements for contact with food in accordance with CFR (Code of Federal Regulations), Title 21. Ultrapolylea® has passed the USP XX Class VI tests for plastics. The filter element is manufactured in accordance with the cGMP requirements (current Good Manufacturer Practice), has no migration of the filter medium, is non-fiber releasing, and thermally welded without use of binders or other additives. The filter element is pre-rinsed with 18 MΩ · cm water, resulting in extremely low extractables.

Applications

The Ultrapolylea® depth filter is designed and developed for:

- Particle removal from water
- Chemicals
- Etchants
- Biological liquids
- Pharmaceuticals
- Pesticides
- Cosmetics
- Oils
- Food and beverage
- Syrup
- Paints and dyes
- Jet printer inks
- Photolithographical liquids
- Coatings
- Saltwater, seawater
- Coolants
- Polymers
- Compressed air and other gases



Ultrapolylea® PP100 high efficient absolute pre- and after filter

Features	Benefits
All-polypropylene construction	Wide chemical durability against numerous gases and liquids
Absolute particle removal from 0.1 µm to 30 µm	High filtration efficiency and a high dirt waste containment
Multi-layer filter media	High dirt holding capacity, long service life, high specific flow capacity, no migration of the filter media
Contains no binders or adhesives	Wide solvent compatability, extremely low extractables, immediately rinses to 18 Mohms · cm
Self-bonded filter media	Fixed pore structure, consistent particle removal, no migration of filter media, non-fiber releasing
Large filter surface	Reduced pressure loss, high flow rates
Biologically inert and non-toxic	Meets FDA requirements for food contact, passed USP class VI biological tests for plastics

Dimensions

Diameter: 2.75"
 Length: 5", 10", 20", 30" or 40"

Materials

Filter medium:	Polypropylene
Upstream support:	Polypropylene
Downstream support:	Polypropylene
Outer guard:	Polypropylene
End caps:	Polypropylene
O-Rings:	Silicone, Buna N, EPDM or Viton®

*Viton is a registered trademark of E.I. du Pont de Nemours and Company

Nominal retention rate

0.1 µm, 0.2 µm, 0.4 µm, 1 µm, 3 µm, 5 µm, 10 µm, 30 µm

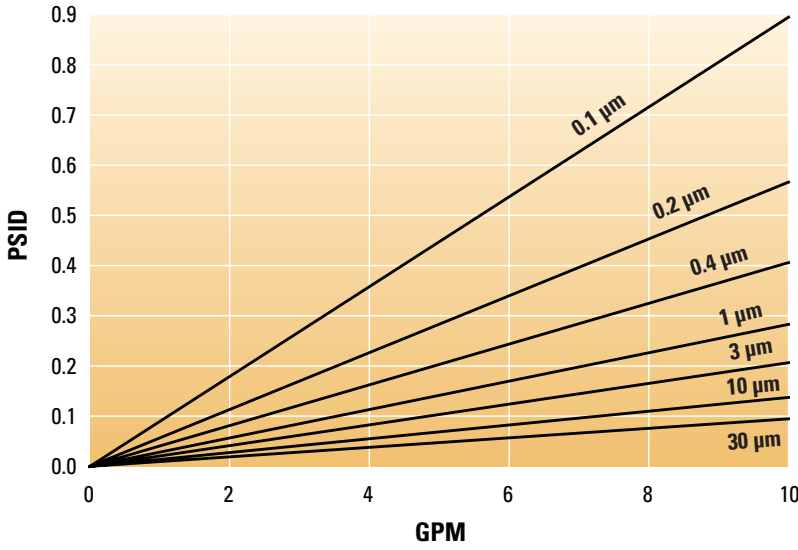
Filtration surface

5.4 ft² for 10" element (10/30)

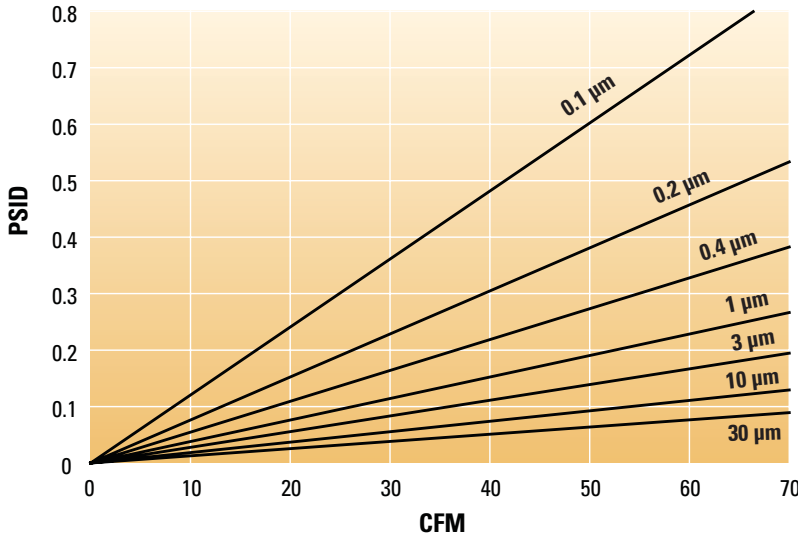
Maximum differential pressure

Operating temp.	Differential pressure
100°F	80 psid
150°F	60 psid
180°F	30 psid

Water



Air



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