

Ultrapolyplea P-PP

The 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 economically high efficiency is required.

Product description:

The Ultrapolyplea 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 by a high dirt hold capacity as well as a high flow rate.

Features:

All components fulfill the FDA requirements for the contact with food in accordance with CFR (Code of Federal Regulations) Title 21.

Ultrapolyplea 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 Mohm · cm water. Which leads to extremely low extractables.



The Ultrapolyplea P-PP – the economical pre- and final filter for liquids and gases

Applications:

The Ultrapolyplea depth filter is designed and developed for the following applications:

- 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
- Salt- and Seawater
- Coolants
- Polymers
- Compressed air and other gases

Ultrapolyplea P-PP

Features:	Benefits:
All-polypropylene construction	Wide chemical durability against numerous gases and liquids
Particle removal with an nominal retention rate of 0.1 µm up to 30 µm.	High filtration efficiency and a high dirt waste containment
Multi layer filter media	High dirt hold capacity, long service life, high specific flow capacity, no migration of the filter medium
Contains no binders or adhesives	Wide solvent compatibility, 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

Materials:

Filter media:	Polypropylene
Upstream support:	Polypropylene
Downstream support:	Polypropylene
Outer guard:	Polypropylene
Endcaps:	Polypropylene
O-Rings:	Silicone, Buna N, EPDM or Viton

Nominal retention rate:

0.1 µm, 0.2 µm, 0.45 µm, 1 µm, 3 µm, 5 µm, 10 µm, 30 µm

Filtration surface:

0,5 m² per 10" element (250 mm)

Maximum differential pressure:

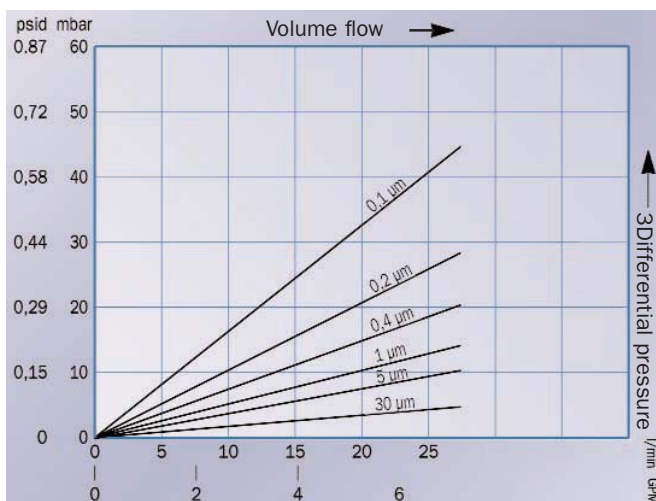
Operating temperature [°C]	Differential pressure [bar]
35	5,5
65	4,0
80	2,0

Dimensions:

Diameter: 70 mm (23/4")

Length: 5", 10", 20", 30" or 40";
125 mm, 250 mm, 500 mm,
750 mm or 1.000 mm (nominal)

Flow rate of a 10" P-PP element – water (1 bar, 20°C)



Flow rate of a 10" P-PP element – air (1 bar, 20°C)

