

## ultrabev® P-PF-BEV

The membrane filter specially developed for applications within the food and beverage industry

### Product description:

The ultrabev® membrane filter is a polyethersulfone membrane in a polypropylene casing. The filter media polyethersulfone is inherently hydrophilic and distinguishes itself by having an asymmetrically designed pore structure. The pore size steadily decreases towards the centre of the medium.

### Features:

All components meet the FDA requirements for the contact with food in accordance with CFR (Code of Federal Regulations) Title 21. ultrabev® 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 filter media, is non-fibre releasing and is thermally welded without the use of binders or other chemical additives.

### Applications:

The ultrabev® membrane is designed and developed for the following applications:

- Beverage industry
  - Mineral water
  - Soft drinks (Cola, juices, etc.)
  - Wine
  - Beer
  - Yeast reduction
- Water
  - Sterile water
  - Mixing or blending water
  - Rinsing or cleaning water

### Absolute retention rates:

0.2 µm, 0.45 µm

### Bacterial retention:

HIMA challenge per ASTM

0.2 µm      Brevundimonas diminuta

0.45 µm     Serratia marcescens

### Integrity testing (wetting agent water):

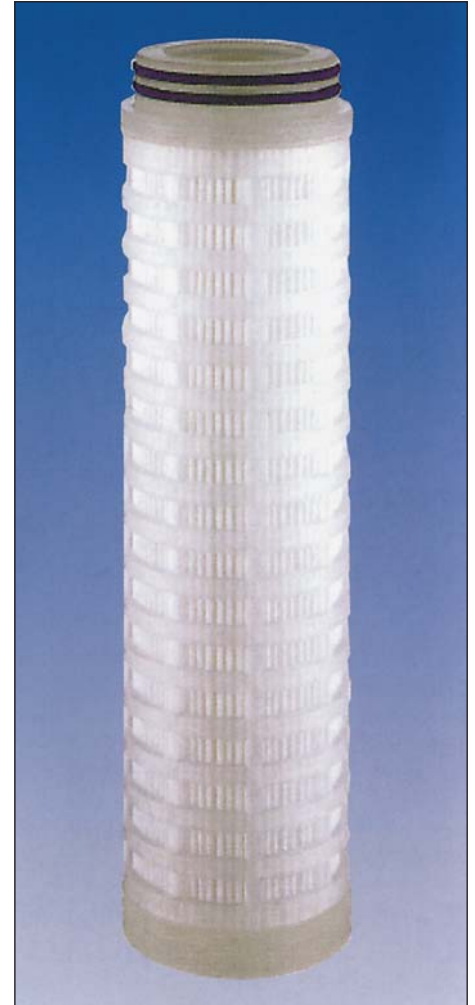
Pore size      Bubble point

0.2 µm          ≥ 3.0 bar, 44 psi

0.45 µm        ≥ 2.2 bar, 32 psi

### Sterilisation:

- In-line sterilisation with slow speed saturated steam  
121°C–135°C (250°F–275°F)  
for 30–60 minutes
- Autoclave  
125°C (260°F) for 30 minutes  
ultrasulfomem® filter elements are capable of repeated sterilisation cycles – without loss of integrity



The ultrabev® P-PF-BEV – for sterile filtration and bacteria reduction of liquids with the lowest possible differential pressure