UPS-P Series

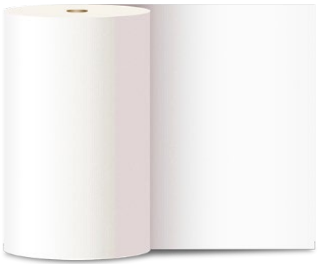
UNISOL Ultrafiltration Flat Sheet Membrane

The UPS-P series ultrafiltration (UF) flat sheet membranes have a molecular weight cut-off range of 5,000 – 150,000 Daltons. The flat sheet is a hydrophilic polyethersulfone (PES) membrane which is caustic and chlorine resistant, provides a stable hydraulic environment for mechanical strength and integrity.

It can be configured in a wide variety of element designs and used in many different applications ranging from food and dairy process applications to industrial water purification. Available in dry flat sheet rolls. Customizable.

Specification

Membrane Type	MWCO	Pure Water Flux
UPS005-P	5,000 Da	≥ 20 LMH/bar
UPS010-P	10,000 Da	≥ 50 LMH/bar
UPS020-P	20,000 Da	≥ 70 LMH/bar
UPS150-P	150,000 Da	≥ 165 LMH/bar
Membrane Material	Polyethersulfone (PES)	
Backing Material	Polypropylene (PP)	
Thickness	210-230 µm	
Effective Width	1026 mm	
pH range	0-14	
Operation Temperature	5-80°C (41-176°F)	
Chlorine Tolerance	200 ppm at pH 10.5-11.0	



STORAGE

- Unused membrane store in original sealed package.
- Keep at room temperature within 5 ~ 35°C.
- Protect from direct sunlight and fire source. Do not expose the membrane to any oxidants.
- Keep membrane moist at all times after initial wetting.
- Drying and re-wetting will irreversibly reduce water permeability. Contact us for more wet membrane storage procedures.

HANDLING

- Avoid scratching, bending or tearing.
- Use gloves to prevent direct contact with residual dirt and oil contaminate from hands.

CLEANING

- Periodically cleaning is recommended to ensure proper performance. Please Contact us for recommended cleaning chemicals and cleaning procedures.

UPS-T Series

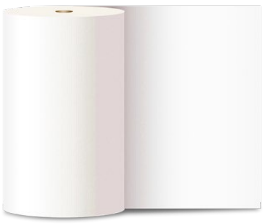
UNISOL Ultrafiltration Flat Sheet Membrane

The UPS-T series ultrafiltration (UF) flat sheet membranes have a molecular weight cut-off range of 10,000 – 150,000 Daltons, reject solutes based on size and charge. The flat sheet is a hydrophilic polyethersulfone (PES) membrane with high rejection of solids.

It can be configured in a wide variety of element designs for food, dairy and process separations as well as water purification. Available in dry flat sheet rolls. Customizable.

Specification

Membrane Type	MWCO	Pure Water Flux
UPS010-T	10,000 Da	≥ 50 LMH/bar
UPS020-T	20,000 Da	≥ 65 LMH/bar
UPS150-T	150,000 Da	≥ 165 LMH/bar
Membrane Material	Polyethersulfone (PES)	
Backing Material	Polyester (PET)	
Thickness	170-190 µm	
Effective Width	1026 mm	
pH range	1-12	
Operation Temperature	5-80°C (41-176°F)	



STORAGE

- Unused membrane store in original sealed package.
- Keep at room temperature within 5 ~ 35°C.
- Protect from direct sunlight and fire source. Do not expose the membrane to any oxidants.
- Keep membrane moist at all times after initial wetting.
- Drying and re-wetting will irreversibly reduce water permeability. Contact us for more wet membrane storage procedures.

HANDLING

- Avoid scratching, bending or tearing.
- Use gloves to prevent direct contact with residual dirt and oil contaminate from hands.

CLEANING

- Periodically cleaning is recommended to ensure proper performance. Please Contact us for recommended cleaning chemicals and cleaning procedures.

MPV-T Series

UNISOL Microfiltration Flat Sheet Membrane

The MPV-T series microfiltration (MF) flat sheet membranes are designed with a pore size range of 0.1–0.2μm. It is made of novel modified polyvinylidene fluoride (PVDF).

It can be configured in a wide variety of element designs and used in deeply treat recycled water reuse and industrial water such as municipal, electricity, steel, petrochemical, textile, landfill leachate, etc.. Available in dry flat sheet rolls. Customizable.

Specification

Membrane Type	Pore Size	Pure Water Flux
MPV010-T	0.1μm	≥ 300 LMH/bar
MPV020-T	0.2μm	≥ 500 LMH/bar
Membrane Material	Polyvinylidene Fluoride (PVDF)	
Backing Material	Polyester (PET)	
Thickness	160-170 μm	
Effective Width	1026 mm	
pH range	1-12	
Operation Temperature	5-80°C (41-176°F)	

STORAGE

- Unused membrane store in original sealed package.
- Keep at room temperature within 5 ~ 35°C.
- Protect from direct sunlight and fire source. Do not expose the membrane to any oxidants.
- Keep membrane moist at all times after initial wetting.
- Drying and re-wetting will irreversibly reduce water permeability. Contact us for more wet membrane storage procedures.

HANDLING

- Avoid scratching, bending or tearing.
- Use gloves to prevent direct contact with residual dirt and oil contaminate from hands.

CLEANING

- Periodically cleaning is recommended to ensure proper performance. Please Contact us for recommended cleaning chemicals and cleaning procedures.