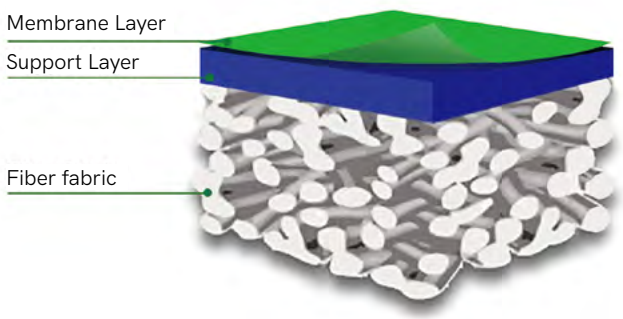
UNISOL
Membrane Technology

FLAT SHEET MEMBRANES

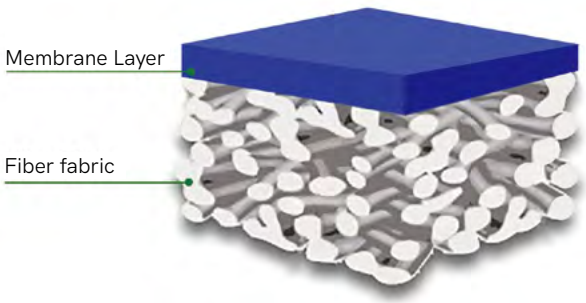
MF/UF/NF/RO Membranes

Wide Range ● High Performance ● FDA Compliant

Schematic Cross-section of Membrane



RO/NF Membrane



UF-Membrane

UNISOL provide flat sheet membranes with cut-offs covering the spectrum of micro-, ultra-, nanofiltration and reverse osmosis, for a wide range of applications in various kinds of materials:

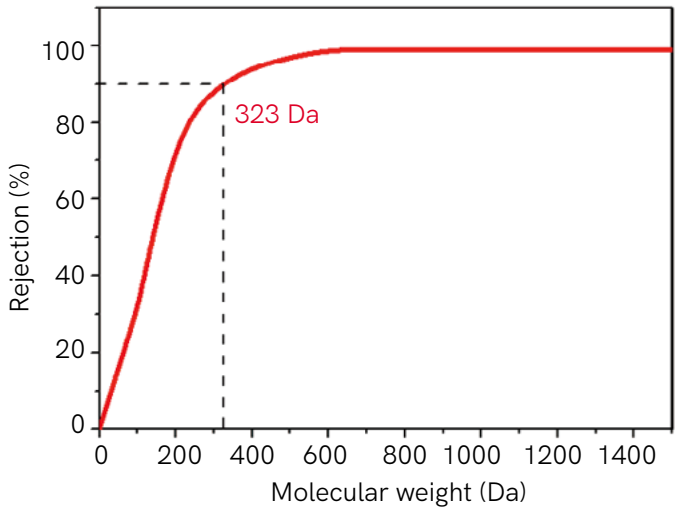
- Polyethersulfone
- Polyvinylidene Flouride
- Piperazinamide
- Polysulfone
- Polyacrylonitrile
- Polyamide

Advantages

Wide range of membrane types

Resistant to high temperatures and pH

FDA Compliant Materials



MF (Microfiltration)

Membrane Model	Membrane materials	Pore size [μm]
MPS010	Polyethersulfone (PES)	0.1
MPV020	Polyvinylidene Flouride (PVDF)	0.2

UF (Ultrafiltration)

Membrane Model	Membrane materials	Nom. MWCO [kDa]
UPS005	Polyethersulfone (PES)	5
UPS010	Polyethersulfone (PES)	10
UPS020	Polyethersulfone (PES)	20
UPS150	Polyethersulfone (PES)	150
USP100	Polysulfone (PS)	100
UPV080	Polyvinylidene Flouride (PVDF)	80
UPV200	Polyvinylidene Flouride (PVDF)	200
UPV1000	Polyvinylidene Flouride (PVDF)	1000

NF (Nanofiltration)

Membrane Model	Membrane materials	Rejection [%]
UNF90	Polyamide (PA)	≥ 98.5%
NFDK	Piperazinamide	≥ 98%
NFDL	Piperazinamide	≥ 97%
UNF454	Piperazinamide	≥ 92%
UNF604	Piperazinamide	≥ 70%

Test condition: 2000ppm $MgSO_4$, 7.6bar (110psi), 25°C (77 °F)

RO (Reverse Osmosis)

Membrane Model	Membrane materials	Stabilized Rejection [%]	Minimum Rejection [%]
BWFR	Polyamide (PA)	99.6%(1)	99.4%(1)
SWHR	Polyamide (PA)	99.8%(2)	99.6%(2)

(1) Test condition: 2000ppm NaCl, 15.5bar (225psi), 25°C (77 °F)
(2) Test condition: 32000ppm NaCl, 55bar (800psi), 25°C (77 °F)

Notes

- Membrane developement according to customized requirements is available.
- Flat sheet membranes are available in rolls stock or sample sizes for testing purposes.
- Standard roll length is 300m.
- All flat sheets can be integrated into our UNISOL spiral wound modules.

WE SUPPORT YOU - WORLDWIDE!

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UNISOL Membrane Technology

UNISOL MEMBRANE TECHNOLOGY reserves the right to change specifications without prior notification.
For the latest version, please refer to the internet. info@unisol-global.com
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