



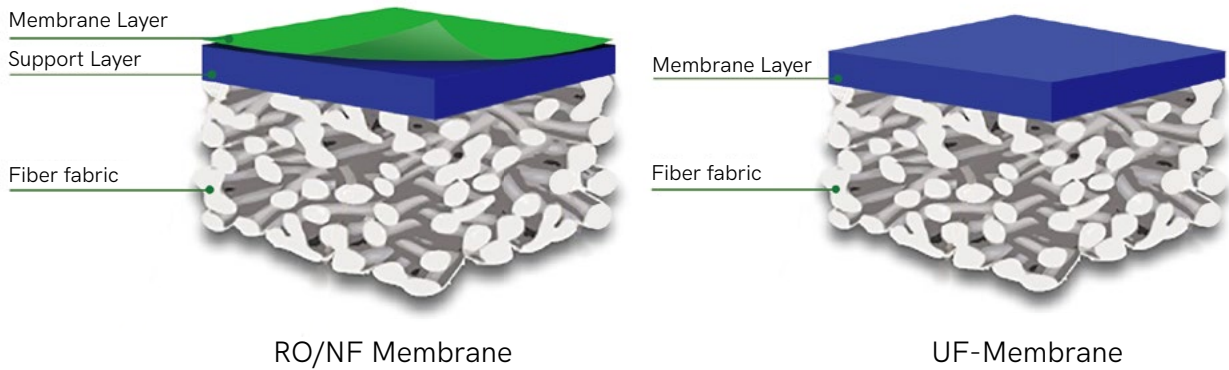
UNISOL
Membrane Technology



FLAT SHEET MEMBRANES

WIDE RANGE • HIGH PERFORMANCE • FDA COMPLIANT

SCHEMATIC CROSS-SECTION OF 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
- Polysulfone
- Polyvinylidene Fluoride
- Polyacrylonitrile
- Piperazinamide
- Polyamide

ADVANTAGES



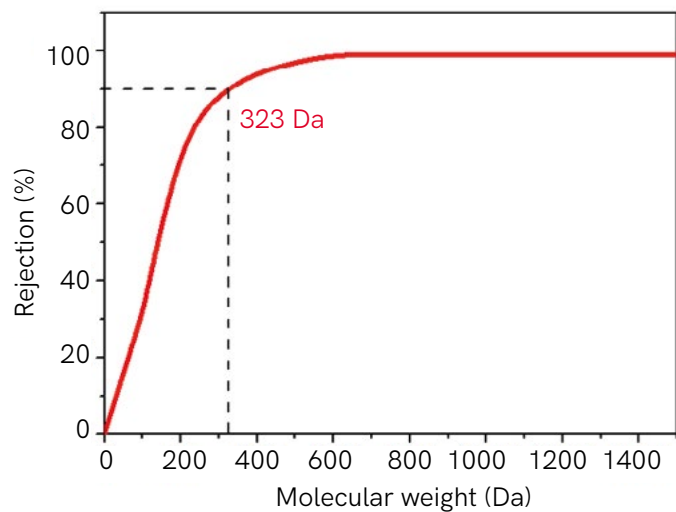
Wide range of membrane types



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 [%]
NFDK	Piperazinamide	≥ 98%
NFDL	Piperazinamide	≥ 96%
UNF454	Piperazinamide	≥ 94%
UNF604	Piperazinamide	≥ 70%

Test condition: 2000ppm MgSO₄, 7.6bar (110psi), 25°C (77 °F)

RO (Reverse Osmosis)

Membrane Model	Membrane materials	Stabilized Rejection [%]	Minimum Rejection [%]
BW3017	Polyamide (PA)	99.6% ⁽¹⁾	99.4% ⁽¹⁾
SW3013	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 development 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!



China

UNISOL Membrane Technology (Xiamen) Co., Ltd.
#1670, Butang Mid Rd, Tong'an District, Xiamen
361112, China
+86 592 6301318
infochina@unisol-global.com

Germany

WTA UNISOL GmbH
Fritz-Bothmann-Str. 1, 99867 Gotha,
Germany
+49 3621 73 77 920
info@wta-unisol.com

USA

UNISOL LLC
108 W. 13th street suite 100, WILMINGTON,
Delaware 19801, USA
+1 786 716 3204
infousa@unisol-global.com

India

Mumbai, India
+91 98330 90670, +91 98201 89128
infoindia@unisol-global.com

Singapore

Singapore
+65 91822555
infosg@unisol-global.com

Vietnam

198 N7 Street, Dong Tang Long, Truong
Thanh ward, Thu Duc, Ho Chi Minh City,
Vietnam
+84 983 537 155
infovn@unisol-global.com



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
www.unisol-global.com | www.wta-unisol.com

12/2024