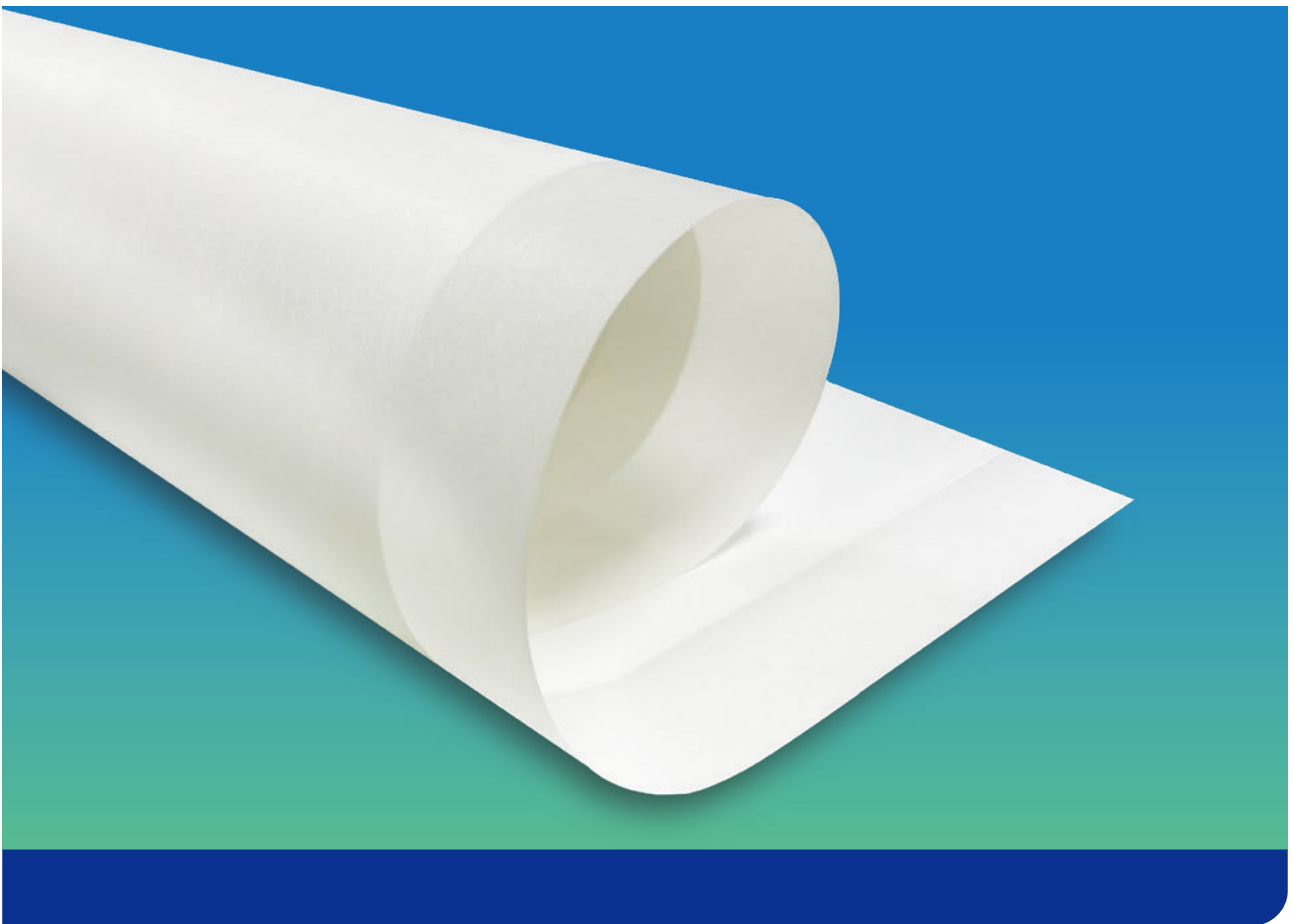


Flat Sheet Membranes



Wide range

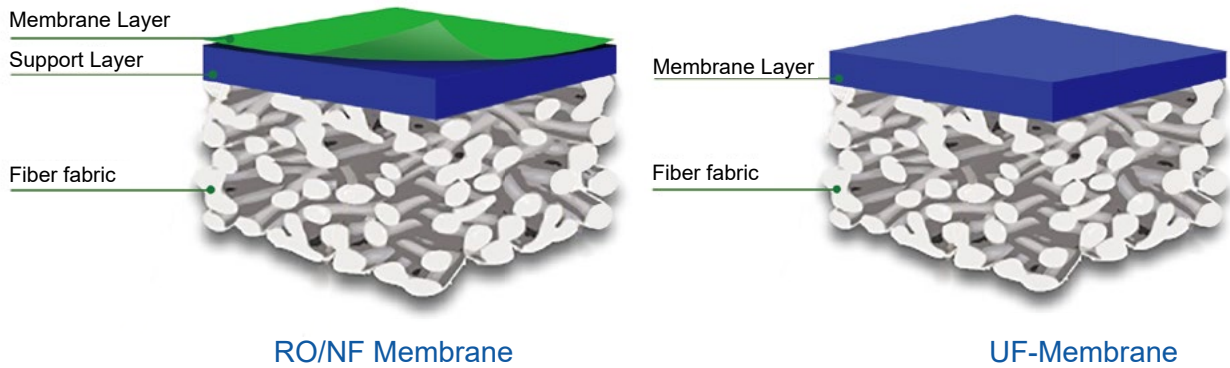


High temperature
and pH



FDA Compliant
Materials

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



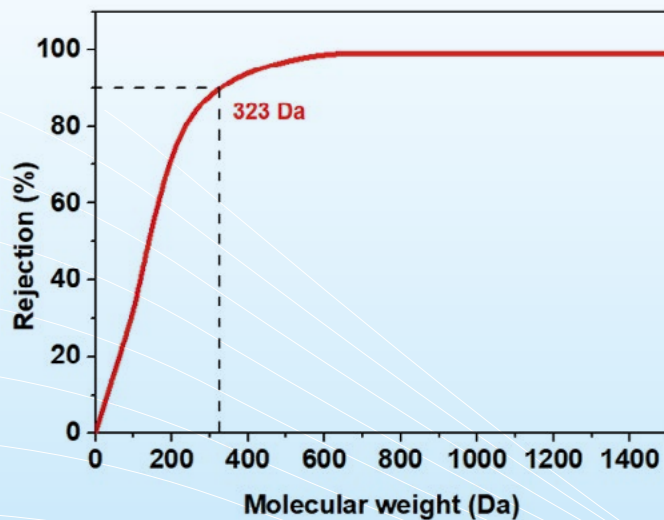
Wide range of membrane types



Resistant to high temperatures and pH



FDA Compliant Materials



Microfiltration (MF)

Membrane Model	Membrane materials	Pore size [μm]
MPV020	Polyvinylidene Flouride	0.2
MPS010	Polyethersulfone	0.1

Ultrafiltration (UF)

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

Nanofiltration (NF)

Membrane Model	Membrane materials	Rejection [%]
NFDK	Piperazinamide	$\geq 98\%$
NFDL	Piperazinamide	$\geq 96\%$
UNF454	Piperazinamide	$\geq 94\%$
UNF604	Piperazinamide	$\geq 70\%$

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

Reverse Osmosis (RO)

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



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 (0) 3621 73 77 920
info@wta-unisol.com
www.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

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

Singapore

+65 91822555
Singapore
infosg@unisol-global.com

Vietnam

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