



NADIR® UP150 P

Ultrafiltration Membrane

NADIR® UP150 membrane is a polyethersulfone (PES) ultrafiltration membrane with a nominal molecular weight cut-off (M.W.C.O.) of 150,000 Daltons. UP150 membrane is commonly used in the removal of macromolecules or concentration of large organic solutes in both water and process applications, and can be used for membrane bioreactor (MBR) applications. UP150 membrane sheet is available in dry flat sheet rolls and is FDA compliant.

Membrane Characteristics

Membrane Chemistry	Backing Material	Nominal M.W.C.O (Da)	Thickness (µm)
Polyethersulfone (PES)	Polypropylene	150,000	210 - 250

Permeability LMH/bar (GFD/psi) ^a	Retention PVP K85 (%) ^b	pH Range	Chlorine Tolerance ^c
≥ 285 (≥ 11.6)	90.0 – 98.0	0.0 – 14.0	500,000 ppm·hours

a Test conditions: Clean water, 2 bar (29 psi), 20°C (68°F), crossflow operation. Membrane specifications may change without notice as design revisions occur.

b Test conditions: 4% PVP K85, 2 bar (29 psi), 20°C (68°F), crossflow operation.

c pH must be between 10 – 11 during chlorine cleaning.

Important Information

Standard Sizes: NADIR flat sheet membrane is available in an A4 sample size of 210 mm x 297 mm (8.27 in x 11.69 in) and in a nominal roll size of 150 m x 1016 mm (492 ft x 40.0 in). Custom lengths may be available on request.

Initial Flush: MICRODYN-NADIR recommends flushing membrane for 30 minutes and discarding permeate during the flush prior to operation.

Storage: Membrane shipped dry should be stored away from direct sunlight in a cool, dry place. Please see *Membrane Storage Guide – Flat Sheet Membrane* (TSG-O-011).

Solving Unmet Needs with Customized Products



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