



NADIR® NP010 P

“Nanofiltration” Membrane

NADIR® NP010 is a polyethersulfone (PES) membrane that exhibits nanofiltration characteristics when exposed to high pressure. Its stabilized molecular weight cut-off is in the range of 1,000-1,200 Daltons after operation at 40 bar (580 psi). NP010 membrane is durable enough to be used in concentrated acid environments and caustic recovery systems with a pH range of 0 - 14. NP010 membrane sheet is available in dry flat sheet rolls and is FDA compliant.

Membrane Characteristics

Membrane Chemistry	Backing Material	Na ₂ SO ₄ Rejection Bounds (%) ^a
Polyethersulfone (PES)	Polypropylene	35 - 75

Permeability LMH/bar (GFD/psi) ^b	Thickness (μm)	pH Range
≥ 5 (≥ 0.2)	210 – 250	0.0 – 14.0

a Test conditions: 5,000 ppm Na₂SO₄, 40 bar (580 psi), 20°C (68°F). Membrane specifications may change without notice as design revisions occur.

b Test conditions: Clean water, 40 bar (580 psi), 20°C (68°F).

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).

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