

# 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 <sub>2</sub> SO <sub>4</sub> Rejection Bounds (%) <sup>a</sup>
Polyethersulfone (PES)	Polypropylene	35 – 75

  

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

a Test conditions: 5,000 ppm Na<sub>2</sub>SO<sub>4</sub>, 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:** MANN+HUMMEL Water & Fluid Solutions 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).

## Contact

#### Europe

Germany: +49 611 962 6001  
Italy: +39 0721 1796201  
info@microdyn-nadir.com

#### Americas

USA: +1 805 964 8003  
sales.mnus@microdyn-nadir.com

#### Asia

Singapore: +65 6457 7533  
China: +86 10 8413 9860  
waterchina@mann-hummel.com