

NADIR UP005 P

Ultrafiltration Membrane

With a nominal molecular weight cut-off (M.W.C.O.) of 5,000 Daltons, NADIR UP005 flat sheet is a polyethersulfone (PES) membrane that achieves the highest protein rejection in the industry. In these applications, a tighter ultrafiltration membrane is often used to maximize product yield. UP005 flat sheet membrane can be configured in a wide variety of element designs for food, dairy and process separations as well as water purification. UP005 membrane sheet is available in dry flat sheet rolls and is FDA compliant.

MEMBRANE CHARACTERISTICS

Membrane Chemistry	Polyethersulfone (PES)
Backing Material	Polypropylene
Nominal M.W.C.O. (Da)	5,000
Permeability LMH/bar (GFD/psi) ^a	≥ 10.0 (≥ 0.4)
Thickness (μm)	210 - 250
pH Range	0.0 - 14.0
Chlorine Tolerance ^b	200 ppm (sanitization) at pH ≥ 10.5

a) Test conditions: Clean water, 4 bar (58 psi), 20°C (68°F), crossflow operation. Membrane specifications may change without notice as design revisions occur.

b) For daily short term cleaning: maximum 50°C (125°F), 30 min.

IMPORTANT INFORMATION

Standard Sizes: NADIR flat sheet membrane is available in a sample size of 200 mm x 300 mm (7.87 in x 11.81 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 & Membrane 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).

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Rev. 2501

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