



NADIR® UH004 P

Ultrafiltration Membrane

With a nominal molecular weight cut-off (M.W.C.O.) of 4,000 Daltons, NADIR® UH004 flat sheet is a hydrophilic polyethersulfone (PESH) membrane with high rejection of solids. UH004 flat sheet membrane can be configured in a wide variety of element designs for food, dairy and process separations as well as water purification. UH004 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) |
|-------------------------------------|------------------|----------------------|----------------|
| Hydrophilic Polyethersulfone (PESH) | Polypropylene | 4,000 | 210 - 250 |

| Permeability LMH/bar (GFD/psi) ^a | PVP K17 Retention (%) ^b | pH Range | Chlorine Tolerance ^c |
|---|------------------------------------|------------|-------------------------------------|
| ≥ 7.0 (≥ 0.3) | 75.0 – 88.0 | 0.0 – 14.0 | 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 Test conditions: 2% PVP K17, 4 bar (58 psi), 20°C (68°F), crossflow operation.

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

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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