

# BIO-CEL® UV400T

## Ultrafiltration Membrane

BIO-CEL UV400T membrane is a polyvinylidene fluoride (PVDF) ultrafiltration membrane with a nominal molecular weight cut-off (M.W.C.O.) of 400,000 Daltons and high performing fluxes. UV400T membrane is developed for the removal of macromolecules or concentration of large organic solutes in membrane bioreactor (MBR) applications. UV400T membrane sheet is available in dry flat sheet rolls.

### MEMBRANE CHARACTERISTICS

| Membrane Chemistry             | Backing Material    | Nominal Pore Size (nm) | Nominal M.W.C.O. (Da) |
|--------------------------------|---------------------|------------------------|-----------------------|
| Polyvinylidene fluoride (PVDF) | Non-Woven Polyester | 65                     | 400,000               |

| Permeability LMH/bar (GFD/psi) <sup>a</sup> | Thickness (µm) | pH Range   | Chlorine Tolerance <sup>b</sup> |
|---|----------------|------------|---------------------------------|
| ≥ 1200 (≥ 48)                               | 200 - 220      | 2,0 - 11,0 | 1.000.000 ppm-hours             |

a) Test conditions: Clean water 2 bar (29 psi), 20 °C (68 °F), cross flow operation. Membrane specifications may change without notice as design revisions occur.  
b) pH must be between 10 - 11 during chlorine cleaning.

### IMPORTANT INFORMATION

**Standard Sizes:** BIO-CEL 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 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

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