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Supplemental material

1.

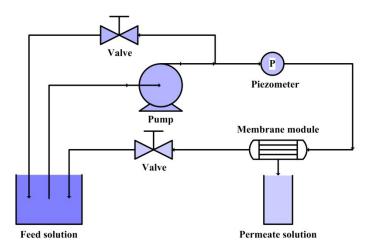


Fig. S1. Schematic diagram of the equipment used to measure filtration performances

2.

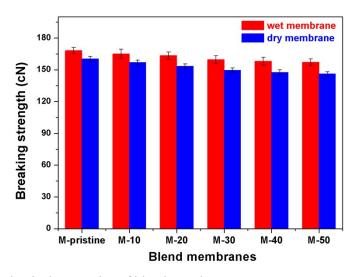


Fig. S2. Mechanical properties of blend membranes. Data were means \pm SD (n = 3).

3. The segregation amount of ACMO ϕ_s (ACMO%) was calculated using the following equation:

$$M_{N-C=O} = \frac{A_{N-C=O}}{A_{N-C=O} + A_{C-C}}$$
 (1)

$$M_{N-C=O} = \mathbf{a} \cdot (1 - \phi_s) + b \cdot \phi_s \tag{2}$$

Where $M_{N-C=O}$ for carbonyl carbon percentage; $A_{N-C=O}$ and A_{C-C} are corresponding to the peak of carbonyl carbon and the alkyl carbon peak area in XPS analysis results, respectively; a and b are the carbonyl carbon content in PVDF and PACMO.

4.

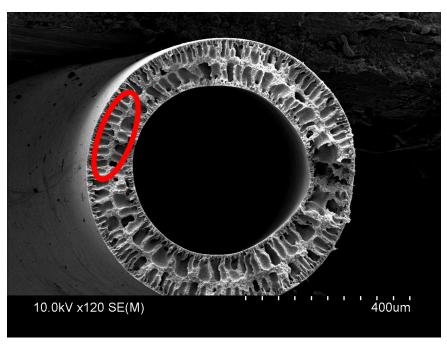


Fig. S3. SEM image of Cross-section