Accepted Manuscript

Title: Effect of PVDF blending on the structure and performance of PEI hollow fiber membrane in CO₂ separation process

Author: Gh. Bakeri A.F. Ismail T. Matsuura M.S. Abdullah B.C. Ng M. Mashkour

PII: DOI: Reference: S0263-8762(15)00335-4 http://dx.doi.org/doi:10.1016/j.cherd.2015.08.024 CHERD 2004

To appear in:

 Received date:
 13-4-2015

 Revised date:
 6-8-2015

 Accepted date:
 27-8-2015

Please cite this article as: Bakeri, Gh., Ismail, A.F., Matsuura, T., Abdullah, M.S., Ng, B.C., Mashkour, M.,Effect of PVDF blending on the structure and performance of PEI hollow fiber membrane in CO₂ separation process, *Chemical Engineering Research and Design* (2015), http://dx.doi.org/10.1016/j.cherd.2015.08.024

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Research Highlights

- PVDF polymer was blended in polyetherimide spinning dope and hollow fiber membranes were fabricated.
- 2- The surface hydrophobicity of PEI membranes was enhanced.
- 3- The pore size and surface porosity of PVDF blended membranes were increased which reduces the LEPw of membranes.
- 4- The PVDF blended polyetherimide membrane shows higher CO₂ absorption flux compared to neat PEI membrane.

A contractions

Download English Version:

https://daneshyari.com/en/article/7007232

Download Persian Version:

https://daneshyari.com/article/7007232

Daneshyari.com