

THIN FILM COMPOSITE HOLLOW FIBERS FOR OSMOTIC POWER GENERATION

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ABSTRACT

Disclosed is a thin film composite hollow fiber that includes an outer support layer having a thickness of 10 to 10000 μm and a polyamide thin film layer having a thickness of 1 to 10000 nm; and has a transmembrane pressure resistance rate of higher than 15 bar and a pure water permeability rate of higher than $0.8 \text{ Lm}^{-2}\text{h}^{-1}\text{bar}^{-1}$. Also disclosed are methods of preparing the above-described support and composite hollow fiber.

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