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عنوان مقاله:

Gas Permeation through PEBAX Block Copolymer Membranes-A Review

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خلاصه مقاله:

Polymeric Membrane recently has shown a great potential for separation of CO2 from CH4 as the main part of a gas sweetening process for natural gas treatment. Among different separation methods available, membrane technology has emerged to be a viable and valuable option over conventional techniques like amine absorption, in view of its advantages such as economy, process safety and environmentally benign nature. This review addresses the current scientific and technological breakthrough that governs the field of application of Polyether block amide (Pebax) membranes for natural gas separation. The performance of such membranes and the current research activity on CO2/CH4 separation are the main focus of this review. Therefore, the effects of pressure, temperature and addition of .nanoparticles to the various types of Pebax membranes are investigated and compared

کلمات کلیدی:

Permeability, Selectivity, Polymeric Membranes, Pebax Membrane

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