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Microporous membrane formation via thermally-induced phase separation. II. Liquid-liquid phase separation

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Abstract

Microporous membranes have been prepared via thermally-induced liquid-liquid phase separation of isotactic polypropylene-*n,n* bis (2-hydroxyethyl) tallowamine mixtures. The thermally-induced phase separation process is discussed in terms of the thermodynamics of the binary mixture and possible phase separation mechanisms. It is demonstrated that membranes can be produced by liquid-liquid phase separation followed by solidification of the polymer or by solid-liquid phase separation.



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Keywords

membrane preparation and structure; microporous membranes; phase separation, thermally induced; phase separation, liquid-liquid

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