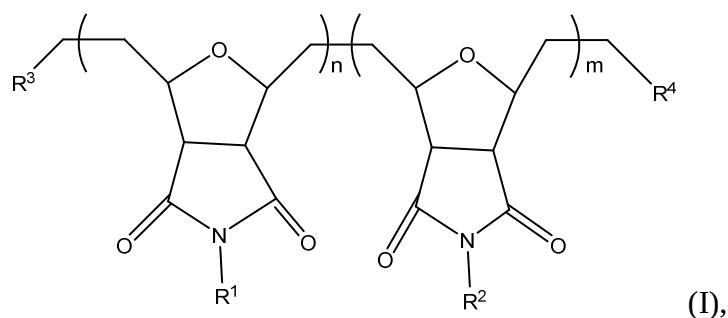


ABSTRACT OF THE DISCLOSURE

SELF-ASSEMBLED STRUCTURE AND MEMBRANE COMPRISING BLOCK COPOLYMER AND PROCESS FOR PRODUCING THE SAME BY SPIN COATING**(IVa)**

Disclosed are self-assembled structures prepared from block copolymers, for example, diblock copolymers of the formula (I):



wherein R^1 - R^4 , n , and m are as described herein, which find use in preparing nanoporous membranes. In an embodiment, the block copolymer self-assembles into a cylindrical morphology. Also disclosed is a method of preparing such self-assembled structures which involves spin coating a polymer solution containing the block copolymer to obtain a thin film, followed by solvent annealing of the film. Further disclosed is a method of preparing porous membranes from the self-assembled structures.

Figure 2