Obtaining polymer electrolytes in lithium elements with triethylene glycol methyl ether fragments

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Polymer electrolyte membrane fuel cells (PEMFCs) have increasingly received worldwide attention because of their potential application in transportation and in stationary and portable electronics. PEMFC technology already provides sufficient performance and durability to be competitive with alternative technologies in some of these applications. Commercialization of fuel cells and deployment in these early market applications is expected to lead to further improvement in performance, durability, and cost.

The hydrosilylation reactionы with the unsaturated bonds immediately attracted the attention of a wide circle of researchers. The reason for the great interest is that hydrosilylation is a very simple and convenient method of synthesis of organic compounds containing different functional groups.

For the purpose of synthesis and study of solid polymeric membrane electrolytes in lithium cells, the hydrosilylation reactions organocycletetracyloxan monomers to electro donor group-containing compounds were performed.

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