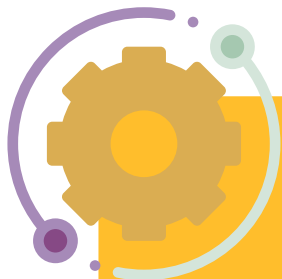




“Block copolymers, methods for obtaining them, and uses for their application as ion exchange membranes with high thermal conductivity”

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Technology description

A polymer synthesis and modification technology was developed, whose main difference compared to previous synthesis routes lies in the fact that the synthesized polymers exhibit chemical, thermal, mechanical, and electrochemical properties suitable for applications in electrochemical systems. Notably, they demonstrate high ionic conductivity (greater than that achieved with other similar membranes) and stability at high temperatures and elevated pH levels. Additionally, they promote the formation of hydrophobic and hydrophilic phases when used in ion exchange membranes prepared from the synthesized polymers.

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