

Title (en)

COMPOSITE ION-EXCHANGE MEMBRANE AND PROCESS FOR PRODUCTION THEREOF

Title (de)

ZUSAMMENGESETZTE IONENAUSTAUSCHERMEMBRAN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

MEMBRANE ÉCHANGEUSE D'IONS COMPOSITE ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

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Application

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Abstract (en)

[origin: EP3936557A1] The current invention relates to a process for making a composite ion exchange membrane, said composite ion exchange membrane comprising at least one ion exchange polymer which adheres to a porous support, the process comprising the steps of : providing a porous support comprising a porous polymer matrix, said porous support having a thickness between 10 and 1000 µm and an median pore size between 10 and 100000 nm, preparing a curable ion exchange precursor comprising : (a) radicalizeable monomer or oligomer comprising a vinyl, acryl or acrylamide functional group, (b) monomer, oligomer or polymer with an ionexchange moiety and (c) optionally an initiator; creating a thin layer of curable ion exchange precursor onto at least one side of the porous support layer, and adhering said curable ion exchange precursor to said porous support by initiating radical polymerization of the curable ion exchange precursor. The invention further relates to the composite ion exchange membrane obtainable by said process.

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