

THIN FILM COMPOSITE OSMOSIS MEMBRANES

ABSTRACT

5 A two-layered osmosis membrane contains a support layer and a rejection layer. The support layer, in which a mesh is embedded, is made of a phase separation polymer and has a thickness of 50 to 200 μm . The rejection layer, which adheres to the support layer, is made of a thin film composite polymer and has a thickness of 0.05 to 3 μm . The mesh, which is embedded in the support layer, has an open area of 30 to 70%, a mesh size of 60-300 mesh, and a thickness of 45-150 μm . Also disclosed is a method of making the above described membrane.