

Method for producing composite membranes, in which a homogeneous mechanical mixture is prepared, loaded into a membrane forming device, and formed into a membrane. Mineral components, which account for 50% by volume, are added to a homogeneous mechanical mixture, with the rest being polymer, and the device for membranes forming is a 3D printer SLS, which forms the membrane layer by layer based on a pre-designed computer-generated three-dimensional model from the homogeneous mechanical mixture and simultaneously fuses the layers together using laser radiation, and which stops operating upon completion of the program.