



PROJECT

SDP- POLYMER NANO-MEMBRANES

Membrane technology is a rapidly growing field raving a large economical and ecological consequences and importance. More effective are as well know track membranes. A multitude of straight openings pores in sheets of polymeric materials, formed by homogeneously bombarding the sheet with a source of heavy energetic charge particles to produce damage tracks as have been described in.

On subsequent stages radiation damaged materials are removed by chemically etching as by immersing the irradiated solid in an etchant. Its makes the industrial methods of track membrane production non ecological and less technological. Besides, these methods demand the usage of expansive nuclear reactor or accelerate, for example, the cyclotrons.

The great scientific and practical interest has the use for track membrane production the method of super deep penetration (SDP). This method permits to realize complex of physical effects such as an intensive electromagnetic radiation , an intensive strain, pressure of 8-20 GPa, flows of «galactic» and so on.

Polymate Ltd.-INRC proposes SDP method for making of open pores in polymer matrix.