

THIN FILM

ABSTRACT

The purpose of the present invention is to provide a thin film which has high toughness and has high air permeability when applied to skin, and which can be used as a functional member or an electronic functional member. The present invention is configured so as to be provided with: fibers which are formed into a net shape constituting a fibrous net; and a coating film formed on the surfaces of the fibers and in gaps between the fibers. According to a preferred embodiment of this thin film, the fibers are formed by an electrospinning method. Here, the fibers may be formed by using any of a polyurethane, a polyvinyl alcohol (PVA) derivative, and a polyvinylidene fluoride (PVDF) as a material thereof, and the coating film may be formed by using polydimethylsiloxane (PDMS) as a material thereof. Furthermore, it is also possible to provide a conductive film formed on a part of all of the coating film.

[Fig. 1]