

ABSTRACT

Multi-Layered Porous Film, Electrical Cell Separator, and Electrical Cell

A laminated porous membrane comprising a polyolefin porous membrane A,
5 and a porous layer B provided on at least one surface of the polyolefin porous
membrane A, the porous layer B containing a filler (a) and a binder resin (b) as
essential components, the filler (a) having a true specific gravity of less than 2.0
g/cm³.

Provided is a laminated porous membrane having a low heat shrinkage rate
10 and an excellent meltdown-resistant property without compromising properties such
as insulation property, ion permeability, light weight, and slip characteristics which
are essentially required for separators. Also provided is a battery or a capacitor
including the laminated porous membrane as a separator, which is highly safe and
has a high weight energy density.

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No figure