

Title (en)

MICROPOROUS POLYOLEFIN FILMS PERMEABLE TO GASES AND IMPERMEABLE TO LIQUIDS

Title (de)

GASDURCHLÄSSIGE, FLÜSSIGKEITSUNDURCHLÄSSIGE, MIKROPORÖSE FOLIEN AUS POLYOLEFINEN

Title (fr)

FILMS MICROPOREUX POLYOLEFINIQUES PERMEABLES AUX GAZ ET IMPERMEABLES AUX LIQUIDES

Publication

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Application

EP 99929638 A 19990722

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Abstract (en)

[origin: WO0005295A1] The invention concerns a method for producing a microporous film with strong isotropic tendency permeable to gases and impermeable to aqueous liquids, consisting of at least one layer, comprising the following successive steps: preparing a mixture consisting of a polyolefin matrix containing at least a polymer and at least a mineral and/or organic filler; extruding at least a ply by hot-casting the mixture; pre-stretching the ply with a drag roll; cooling and solidifying the pre-stretched ply, using the drag roll; drawing the solidified ply at sufficient temperature for forming the microporous film. The invention is characterised in that the cooling of the pre-stretched melting ply with the drag roll is partial and limited in controlled manner at a temperature in the temperature range required for its drawing; the drawing of the ply, brought to the temperature required for drawing, by the partial cooling is carried out by traction, at the time of its tangential separation from the drag roll, said roller acting as take-up roller for drawing. Said microporous film can be used on its own or combined with other porous supports for various applications such as corporal hygiene articles, dressings, medical articles, protective clothing, sportswear, insulating coats in the building industry, and the like.

IPC 1-7

C08J 5/18; **B32B 27/32**; **C08L 23/02**; **B29D 7/00**; **B29C 55/02**; **C08K 3/00**

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Citation (search report)

See references of WO 0005295A1

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