

Title (en)  
PRODUCTION OF A FLEXIBLE, GAS-TIGHT, AND TRANSPARENT COMPOSITE FILM

Title (de)  
HERSTELLUNG EINER FLEXIBLEN, GASDICHTEN UND TRANSPARENTEN VERBUNDFOLIE

Title (fr)  
FABRICATION D'UNE FEUILLE COMPOSITE FLEXIBLE, ÉTANCHE AU GAZ ET TRANSPARENTE

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Application  
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Abstract (en)  
[origin: WO2008040730A1] The invention relates to a method for the production of a flexible, gas-tight, and transparent composite film, comprising a transparent carrier layer made of plastic and a glass-like layer. The method comprises the following steps: a) a temperature-resistant substrate is coated with a lacquer comprising glass or glass-forming pre-stages by a wet chemical process, b) the coating is thermally compressed to form the glass-like layer, c) the transparent carrier layer made of plastic is applied onto the glass-like layer and bonded thereto, and d) the composite of the carrier layer and the glass-like layer is separated from the substrate. The composite films obtained in this way are suitable as encapsulation material or packing material, particularly for the use in displays, illumination and photovoltaics, for example for light-emitting diodes, solar cells, displays, or electronic circuits.

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