

Title (en)

NON-WOVEN MATERIAL WITH A MATRIX CONTAINING ELEMENTARY FILAMENTS

Title (de)

VLIESSTOFF MIT EINER ELEMENTARFILAMENTE ENTHALTENDEN MATRIX

Title (fr)

MATÉRIAU NON-TISSÉ DOTÉ DE FILAMENTS ÉLÉMENTAIRES CONTENANT UNE MATRICE

Publication

**EP 2758580 B1 20161102 (DE)**

Application

**EP 12765995 A 20120911**

Priority

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- EP 2012003804 W 20120911
- EP 12765995 A 20120911

Abstract (en)

[origin: EP2573243A1] Producing a nonwoven fabric comprising at least two polymers, where the melting point of at least one first polymer is located above the melting point of at least a second polymer, comprises providing multicomponent fibers, which comprise at least two polymers having different melting points, and carrying out surface bonding of the multicomponent fibers by the application of a temperature of 100-300[deg] C and a pressure of 40-150 N/mm, such that at least one first polymer in the form of elementary segments are distributed in a matrix of at least one second polymer. Independent claims are also included for (i) the nonwoven fabric formed as a base material for coating with films produced by the above mentioned method, which exhibits a bending stiffness of  $1-10 \text{ N/mm}^2$ , measured according to DIN 53 350 at a bending angle of 10% and/or the bending stiffness of  $2-13 \text{ N/mm}^2$  at the bending angle of 40%, and (ii) a composite material comprising at least one first layer, which include non-woven fabric and at least one second layer, preferably as a film.

IPC 8 full level

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