

Title (en)

Biodegradable filament nonwoven fabric and method of producing the same

Title (de)

Vliesstoff aus biologisch abbaubaren Filamentfäden und Verfahren zu seiner Herstellung

Title (fr)

Tissu non-tissé à base de filaments biodégradables et méthode de fabrication

Publication

EP 1057915 A1 20001206 (EN)

Application

EP 99110694 A 19990602

Priority

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Abstract (en)

A biodegradable filament nonwoven fabric is provided which is composed of filaments of a polylactic acid based polymer. The polylactic acid based polymer is selected from the group consisting of poly-D-lactic acid, poly-L-lactic acid, copolymers of D-lactic acid and L-lactic acid, copolymers of D-lactic acid and a hydroxycarboxylic acid, copolymers of L-lactic acid and a hydroxycarboxylic acid, and copolymers of D-lactic acid, L-lactic acid and a hydroxycarboxylic acid, which have melting points of not lower than 100 DEG C, and blends of any of these polymers which have melting points of not lower than 100 DEG C. The filaments of the polylactic acid based polymer have a birefringence of 10×10^{-3} to 25×10^{-3} , a degree of crystallinity of 12 to 30wt%, and a crystal size of not greater than 80 Å as measured axially of the filaments. The nonwoven fabric has a boiling water shrinkage percentage of not higher than 15%.

IPC 1-7

D04H 1/42; **D04H 1/48**; **D04H 1/54**; **D04H 3/14**; **D04H 3/16**; **D01F 6/62**

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CPC (source: EP US)

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