

Title (en)
Filament nonwoven fabrics and method of fabricating the same

Title (de)
Vliesstoffe von Filamentfaden und Verfahren zu seiner Herstellung

Title (fr)
Etoffes non-tissée de filaments et sa méthode de fabrication

Publication
EP 0765959 B1 20000119 (EN)

Application
EP 96114791 A 19960916

Priority
• JP 25167995 A 19950929
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Abstract (en)
[origin: EP0765959A1] A filament nonwoven fabric and method of fabricating the same. The method comprises the steps of melting a polymer 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 hydroxy-carboxylic acid, and copolymers of L-lactic acid and hydroxy-carboxylic acid, said polymer having a melting point of 100 DEG C or more, or a blend of such polymers having a melting point of 100 DEG C or more, said polymer or polymer blend having a melt flow rate of from 10 to 100 g/10 minutes as measured at 190 DEG C. according to ASTM-D-1238 (E), in a temperature range of from (T_m + 20) DEG C to (T_m + 80) DEG C, where T_m DEG C is the melting point of the polymer or polymer blend; extruding the melt through a spinneret into filaments; drafting the extruded filaments by means of a suction device at a drafting speed of from 1,000 to 5,000 m/minute, thereby fining them down into finer filaments; depositing such filaments, as they are spread open each other, and are laid up on a travelling collector surface to form a web; and heat-treating the web thereby to obtain the nonwoven fabric.

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IPC 8 full level
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Cited by
EP1091028A1; DE19857067B4; CN114232218A; EP2971319A4; EP1967631A1; EP1057915A1; GB2603981A; GB2603981B; US2020040495A1; US11697896B2; US7767120B2; US6739023B2; US7364607B2; US6506873B1; US6780357B2; WO0065140A1; WO03097212A1; US10435829B2; US11021821B2; US6787493B1; EP3246444A1; JP2020158949A; RU2742085C2; US6607996B1; US7994078B2; US11913151B2; WO9824951A1; WO9850611A1

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