

Title (en)

METHOD FOR PRODUCING A FIBROUS WEB CONTAINING POLYLACTIDE FIBRES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER FASERSTOFFBAHN MIT POLYLACTID-FASERN

Title (fr)

PROCÉDÉ PERMETTANT DE PRODUIRE UNE BANDE FIBREUSE CONTENANT DES FIBRES DE POLYLACTIDE

Publication

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Application

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Abstract (en)

[origin: WO2021259420A1] The invention relates to a method for producing a fibrous web containing polylactide fibres and, as necessary, other fibres, in which (a) a fibrous ply containing polylactide fibres and, as necessary, other fibres are laid on a substrate in a random fibre arrangement, (b) initially a loose, pre-compressed nonwoven is created by applying a first pressure to the fibrous ply, the tear resistance of which nonwoven permits free bridging of a span between 0.1 m and 1 m before the nonwoven tears, (c) the pre-compressed nonwoven is then passed through the calender gap, wherein a pattern consisting of point or linear pressure zones is formed in the gap, with the fibres in the pressure zones being exposed to a second pressure, which is higher than the first pressure, and to a temperature such that the fibres fuse. Biodegradable fibrous webs, containing polylactide fibres and, as necessary, other fibres, can be produced having a good resistance to moisture, even in a mixture with other fibres, for example cellulose fibres. It is also possible to transfer the fibrous web into a dimensionally stable three-dimensional form.

IPC 8 full level

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