

Title (en)
POLYVINYL ALCOHOL FIBRES AND MELTBLOWN FIBROUS PRODUCTS

Title (de)
POLYVINYALKOHOLFASERN UND SCHMELZGEBLASENE FASERPRODUKTE

Title (fr)
FIBRES D'ALCOOL POLYVINYLIQUE ET PRODUITS FIBREUX PAR FUSION-SOUFFLAGE

Publication
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Application
EP 22190328 A 20220813

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Abstract (en)
A method of manufacture of a nonwoven product comprising polyvinyl alcohol fibres, the method comprising the steps of: providing a polyvinyl alcohol composition comprising homopolymeric polyvinyl alcohol having a degree of hydrolysis of 88% to 98% or greater; and a molecular weight in the range from 22,000 to 38,000 a plasticiser selected from the group consisting of: sugar alcohols, diols, triols, polyols and mixtures thereof; and a stabilizer selected from the group consisting of: sodium stearate, potassium oleate, sodium benzoate, calcium stearate, stearic acid, dimethyl, propionic acid and mixtures thereof; melting the composition at a temperature from 220°C to 230°C to form a molten polymer; wherein the molten polymer is meltblown by the steps of: extrusion of the molten polymer through a die having a spinneret to form molten fibres of the polymer; the fibres being blown from the die and attenuated by a flow of heated air to form attenuated molten fibres, the attenuated fibres being deposited on a moving collector and allowed to solidify to form a meltblown nonwoven fibre web.

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