Title (en)

MELT-BLOWN NON WOVEN FABRIC, PROCESS FOR PRODUCING SAME AND THE USES THEREOF

Title (de)

MELT-BLOWN-VLIES, VERFAHREN ZU DESSEN HERSTELLUNG UND DESSEN VERWENDUNGEN

Title (fr)

NON-TISSE DE FUSION-SOUFFLAGE, SON PROCEDE DE PRODUCTION ET SES UTILISATIONS

Publication

EP 0885321 B1 20000510 (DE)

Application

EP 96944588 A 19961218

Priority

- DE 19609143 A 19960308
- EP 9605686 W 19961218

Abstract (en)

[origin: WO9733026A1] The disclosure relates to a melt-blown non-woven fabric based on cellulose esters, with fibres of mean diameter less than about 10 mu m. The fabric in question is characterised in that it contains 0-10 wt % extractable softener, has a reflection factor (R INFINITY) determined according to DIN 53 145 Part 1 (1992) of more than 60 % and the cellulose ester has a degree of substitution DS of about 1.5-3.0. The softener is preferably water-extractable. Triacetin is especially suitable as the softener. A melt-blown non-woven fabric of this type is produced with the cellulose ester as follows: a cellulose ester, in particular cellulose acetate, with a degree of substitution DS of about 1.5-3.0, in particular 1.7-2.7, is mixed with a softener in a weight ratio of about 2:1 to 1:4 and simultaneously heated and melted. The mixture of softener and cellulose ester has a melting index MFI (210/2.16) according to DIN 53 735 of about 400 to 5g/10 min, in particular 300 to 50 g/10 min. The melt is worked in a melt-blown spinning device into a melt-blown non-woven fabric and the softener is then extracted with a softener solvent to leave a proportion of 0-10 wt. %. The melt-blown non-woven fabric is especially suitable as a filter material.

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IPC 8 full level

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