

Title (en)

Process for manufacturing supportless and release agent free thermally activated nonwovens

Title (de)

Verfahren zur Herstellung von träger- und trennmittelfreien, thermoaktivierbaren Vliesen

Title (fr)

Procédé pour la fabrication sans support et sans agents anti-adhésifs d'un non tissé thermofusible

Publication

EP 0628650 B1 19990804 (DE)

Application

EP 94108039 A 19940525

Priority

DE 4318887 A 19930607

Abstract (en)

[origin: CA2125076A1] A PROCESS FOR THE PRODUCTION OF HEAT-ACTIVATABLE MATS FREE FROM SUPPORTS AND RELEASE AGENTS AND THEIR USE FOR BONDING VARIOUS SUBSTRATES A b s t r a c t The invention relates to a process for the production of heat-activatable mats based on hydroxyl polyester polyurethanes which are free from supports and release agents and which have viscosities of 600 to 3500 mPa.s, measured as solution viscosity in methyl ethyl ketone (15% Brookfield LVT viscosimeter, spindle 3, 60 r.p.m., 23.degree.C) and weights per unit area of 5 to 200 g/m², characterized in that the mats are produced by melt blowing (for example REICOFIL? melt blowing process) at melt temperatures in the range from 230 to 260.degree.C using a receiving conveyor belt of which the constituent material has a surface tension of 18.5x10⁻⁵ N/cm to 46x10⁻⁵ N/cm. The mats produced by the process according to the invention can be wound into rolls without blocking despite the absence of release agents or spacers and are eminently suitable for bonding various substrates.

IPC 1-7

D04H 1/56

IPC 8 full level

B32B 27/08 (2006.01); **B32B 27/12** (2006.01); **B32B 27/40** (2006.01); **C09D 175/06** (2006.01); **C09J 7/00** (2006.01); **C09J 175/00** (2006.01); **C09J 175/06** (2006.01); **D01F 6/70** (2006.01); **D04H 1/435** (2012.01); **D04H 1/4358** (2012.01); **D04H 1/56** (2006.01); **D04H 1/724** (2012.01); **D04H 3/009** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP)

D04H 1/435 (2013.01); **D04H 1/4358** (2013.01); **D04H 1/724** (2013.01); **D04H 3/009** (2013.01); **D04H 3/16** (2013.01)

Cited by

DE19640607A1; EP0753607A3

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

DE 4318887 A1 19941208; CA 2125076 A1 19941208; DE 59408568 D1 19990909; EP 0628650 A1 19941214; EP 0628650 B1 19990804; ES 2136140 T3 19991116; JP H07310270 A 19951128

DOCDB simple family (application)

DE 4318887 A 19930607; CA 2125076 A 19940603; DE 59408568 T 19940525; EP 94108039 A 19940525; ES 94108039 T 19940525; JP 14069394 A 19940601