Title (en)

Nonwoven web and method of forming same

Title (de)

Vliesstoff und Verfahren zu seiner Herstellung

Title (fr)

Etoffe non-tissée et son procédé de réalisation

Publication

EP 0462574 B2 20011219 (EN)

Application

EP 91109987 A 19910618

Priority

US 54007090 A 19900618

Abstract (en)

[origin: EP0462574A1] A nonwoven web (32) suitable as a barrier layer in an SMS fabric laminate (12) is provided. The web is formed at commercially acceptable polymer melt throughputs (greater than 3 PIH) by using a reactor granule polyolefin, preferably polypropylene, that has been modified by the addition of peroxide in amounts ranging from up to 3000 ppm to reduce the molecular weight distribution from an initial molecular weight distribution of from 4.0 to 4.5 Mw/Mn to a range of from 2.2 to 3.5 Mw/Mn. Also the addition of peroxide increases the melt flow rate (lowers viscosity) to a range between 800 up to 5000 gms/10 min at 230 DEG C. The resulting web has an average fiber size of from 1 to 3 mu m and pore sizes distributed predominantly in the range from 7 to 12 mu m, with a lesser amount of pores from 12 to 25 mu m, with virtually no pores greater than 25 mu m, and with the peak of the pore size distribution less than 10 mu m. <IMAGE>

IPC 1-7

D04H 1/54

IPC 8 full level

A61B 19/08 (2006.01); **A61L 27/00** (2006.01); **C08L 101/00** (2006.01); **D04H 3/00** (2006.01); **D04H 3/16** (2006.01); **D04H 13/00** (2006.01)

CPC (source: EP KR)

D04H 1/4291 (2013.01 - EP); **D04H 1/544** (2013.01 - EP); **D04H 1/559** (2013.01 - EP); **D04H 1/56** (2013.01 - EP); **D04H 3/007** (2013.01 - EP); **D04H 3/02** (2013.01 - KR)

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WO2005052052A1; US5482765A; CN102296425A; EP1270770A3; EP0742305A1; EP0896081A3; US5688157A; EP0683260A3; CN112359487A; US7619038B2; US7319077B2; WO2007024447A1; WO9740225A1; WO2004061184A1; US10155186B2; US10874962B2; US11458427B2; EP2113541A1; US6368990B1; US6620746B1; US10155187B2; WO9945186A1; US7476710B2; US6182732B1; US6427745B1; US6770156B2; EP2452960A1; WO2012062737A1; EP2251375A1; US8846805B2; US10653986B2; US7683129B2; US6878427B2; EP3118249A1; WO2017009380A1; US9694306B2; US10174189B2; US9950284B2; US10343095B2; US10682595B2; US11167232B2; US11684885B2; US12011686B2

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