

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 A1 19911227 (EN)

Application
EP 91109987 A 19910618

Priority
US 54007090 A 19900618

Abstract (en)
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>

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D04H 1/54

IPC 8 full level
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Citation (search report)
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