

Title (en)
BREATHABLE MICROPOROUS FILM

Title (de)
ATMUNGSAKTIVE MIKROPORÖSE FOLIE

Title (fr)
FILM MICRO-POREUX RESPIRANT

Publication
EP 1112305 A1 20010704 (EN)

Application
EP 99946585 A 19990811

Priority
• EP 99946585 A 19990811
• EP 98115152 A 19980812
• US 9918188 W 19990811

Abstract (en)
[origin: EP0979838A1] A breathable microporous film having improved extensibility is disclosed. The microporous breathable film is formed from a mixture of a thermoplastic polymer and of particles of an inorganic filler, and is provided with breathability by stretching it in at least one direction. The microporous film is provided with a better extensibility by selecting the particle size of the inorganic filler, and the moisture content of the particles of inorganic filler and of the thermoplastic polymer when they are blended together to provide the mixture, and by controlling the Dart Resistance of the film. A composite layered breathable structure comprising the microporous film is also disclosed, and moreover a disposable absorbent article comprising a microporous breathable film which is imparted extensibility by means of mechanical straining. <IMAGE>

IPC 1-7
C08J 5/18; C08J 9/00; B29C 67/20; A61F 13/15; A61L 15/00; C08K 3/26; C08L 23/08

IPC 8 full level
A61F 13/514 (2006.01); **A61F 13/15** (2006.01); **A61L 15/00** (2006.01); **A61L 15/18** (2006.01); **B29C 55/00** (2006.01); **B29C 55/02** (2006.01); **B29C 55/18** (2006.01); **B29C 67/20** (2006.01); **C08J 5/18** (2006.01); **C08J 9/00** (2006.01); **C08K 3/00** (2006.01); **C08K 3/26** (2006.01); **C08L 23/04** (2006.01); **C08L 23/08** (2006.01); **C08L 101/00** (2006.01); **B29K 23/00** (2006.01); **B29K 101/12** (2006.01); **B29K 105/04** (2006.01); **B29K 105/16** (2006.01); **B29L 7/00** (2006.01)

CPC (source: EP)
A61F 13/5146 (2013.01); **A61F 13/51462** (2013.01); **A61L 15/18** (2013.01); **B29C 55/005** (2013.01); **B29C 55/18** (2013.01); **C08J 5/18** (2013.01); **B29K 2105/04** (2013.01); **B29K 2105/16** (2013.01); **B29K 2995/0065** (2013.01); **C08J 2323/08** (2013.01)

Citation (search report)
See references of WO 0009595A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0979838 A1 20000216; AU 5897099 A 20000306; CA 2338681 A1 20000224; EP 1112305 A1 20010704; JP 2002522608 A 20020723; WO 0009595 A1 20000224; WO 0009595 A9 20000518

DOCDB simple family (application)
EP 98115152 A 19980812; AU 5897099 A 19990811; CA 2338681 A 19990811; EP 99946585 A 19990811; JP 2000565036 A 19990811; US 9918188 W 19990811