

Title (en)
Permeable fabrics

Title (de)
Durchlässige Stoffe

Title (fr)
Etoffes perméables

Publication
EP 0742305 B1 20001220 (EN)

Application
EP 96303164 A 19960503

Priority
GB 9508982 A 19950503

Abstract (en)
[origin: EP0742305A1] The invention relates to a laminated fabric which is permeable to gas and/or vapour but possesses water droplet and solid particle barrier properties. The fabric comprises at least two layers of non-woven material, one layer (1; 4; 7) being a compressed fibrous melt-blown material and the other(s) provided by a support layer having an open porous structure. In the examples, the support layers (2; 3,5; 6,8) have a spun-bonded structure. The melt-blown layer (1; 4; 7) of the fabric may be compressed prior to lamination from an average pore size diameter greater than 8 μ m to a diameter approaching or entering a range of pore diameter sizes from 8 μ m down to about 1 μ m preferably between 3-7 μ m and most preferably about 4 μ m. After a point-bonding or calendering technique, the pore diameter of the melt-blown layer (1; 4; 7) will be within the range 1-8 μ m, preferably 2-7 μ m and most preferably between 2-4 μ m. Advantageously, both the melt-blown layers and the spun-bonded layers may comprise polymers of polypropylene and/or polyethylene. The finished fabric may advantageously be useful in a wide range of applications from bedding materials and sportswear to tarpaulins, camping equipment such as tents, and roofing underlays. <IMAGE>

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D04H 13/00

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D04H 13/00 (2013.01); **E04D 12/002** (2013.01)

Citation (examination)
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• EP 0309073 A2 19890329 - EXXON CHEMICAL PATENTS INC [US]
• US 5208098 A 19930504 - STOVER WALTER H [US]

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