

Title (en)

COMPOSITE SHEET STRUCTURE, PROCESS FOR ITS PREPARATION AND LAMINATES COMPRISING SAID STRUCTURE

Publication

EP 0043390 B1 19840822 (EN)

Application

EP 80302182 A 19800627

Priority

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Abstract (en)

[origin: EP0043390A1] A composite sheet structure comprising (A) a non-woven web comprising (a) continuous filaments of a synthetic resin and (B) a net-like web wherein strands of the web intersect, said web being composed of (b) continuous strands of a mixture consisting of at least two thermoplastic synthetic resins having different melting points, said web (A) and said web (B) being bonded to each other by heating, has, in contrast to conventional such structures, a well-balanced combination of high flexibility, excellent nap resistance, good air permeability and high strength. The web (A) has a basis weight of 2 to 30 g/m<2>. Web (B) has a basis weight of 1 to 10 g/m<2>, an average net strand diameter of 1 to 100 microns, and an average mesh length of up to 5 mm. The strands (b) are composed of at least two resins having melting points differing from each other by at least 20 DEG C. The resin having the lowest melting point has a melting point at least 20 DEG C lower than that of filaments (a) and is present in an amount of 5 to 95% by weight of the resin mixture. The amount of web (A) is 30 to 90% by weight of webs (A) and (B). The composite sheet structure has a basis weight of 10 to 200 g/m<2>. The filaments (a) are partly embraced by the strands (b) throughout the composite sheet structure. The composite sheet structure may be formed into laminates and can be used, for example, in household goods and clothes material.

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IPC 8 full level

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