Title (en)

POLYESTER BASED THERMALLY ADHESIVE COMPOSITE SHORT FIBER

Title (de)

THERMOADHÄSIVE VERBUNDKURZFASER AUF POLYESTERBASIS

Title (fr)

FIBRE COURTE POUR COMPOSITE THERMO-ADHESIF A BASE DE POLYESTER

Publication

EP 1405937 B1 20060726 (EN)

Application

EP 02705398 A 20020320

Priority

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Abstract (en)

[origin: WO02081794A1] A polyester based thermally adhesive composite short fiber which comprises an amorphous polyester having a glass transition temperature of 50 to 100 DEG C and no crystal melting point as a thermally adhesive component and a polyalkylene terephthalate having a melting point of 220 DEG C or higher as a fiber forming component, and has a number of crimp of 3 to 40/25 mm, a percentage of crimp of 3 to 40 % and a percentage of shrinkage of web area of 20 % or less, the percentage of shrinkage of web area (%) being represented by (A0 - A1)/A0 X 100 when, after a card web non-woven fabric being composed of the polyester based thermally adhesive composite short fiber alone and having an area of A0 and a METSUKE of 30 g/m<2> is allowed to stand in a hot air dryer kept at 150 DEG C for 2 minutes, the card web non-woven fabric has an area of A1. The polyester based thermally adhesive composite short fiber can be used for manufacturing a high quality fiber structure exhibiting good dimensional stability and being less susceptible to deformation even when used in a high temperature atmosphere.

IPC 8 full level

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