

Title (en)
HEAT-BONDABLE COMPOSITE FIBER, METHOD FOR PRODUCING SAME AND NONWOVEN FABRIC USING HEAT-BONDABLE COMPOSITE FIBER

Title (de)
HEISSVERSCHWEISSBARE VERBUNDFASER, VERFAHREN ZUR HERSTELLUNG DAVON UND VLIESTOFF MIT DER HEISSVERSCHWEISSBAREN VERBUNDFASER

Title (fr)
FIBRE COMPOSITE POUVANT SUBIR UN THERMOLIAGE, SON PROCÉDÉ DE PRODUCTION, ET NON-TISSÉ UTILISANT UNE FIBRE COMPOSITE POUVANT SUBIR UN THERMOLIAGE

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Application
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Abstract (en)
The present invention addresses the problem of providing: a heat-bondable composite fiber which is capable of maintaining crimp stability even if high elongation remains, and which provides a nonwoven fabric with excellent bulkiness and shaping workability that enables following to a complicated shape or processing with a high fiber deformation stress; a method for producing this heat-bondable composite fiber; and a nonwoven fabric which uses this heat-bondable composite fiber. A heat-bondable composite fiber which comprises a first component that contains a polyester-based resin and a second component that contains a polyolefin-based resin having a melting point that is lower than the melting point of the polyester-based resin by 15°C or more, and which has an eccentric core-sheath structure wherein, in a cross-section of the fiber perpendicular to the lengthwise direction, the second component occupies the outer periphery of the fiber. This heat-bondable composite fiber has an elongation at break of 200% or more, a three-dimensional apparent crimp, and a crimp elastic modulus of from 85% to 100%.

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