

Title (en)
CRIMPED COMPOSITE FIBER, AND FIBROUS MASS AND TEXTILE PRODUCT USING THE SAME

Title (de)
GEKRÄUSELTE VERBUNDFASER SOWIE FASERMASSE UND TEXTILPRODUKT DAMIT

Title (fr)
FIBRE COMPOSITE CRÊPÉE, MASSE FIBREUSE ET PRODUIT TEXTILE UTILISANT CELLE-CI

Publication
[EP 2455516 A1 20120523 \(EN\)](#)

Application
[EP 10799933 A 20100716](#)

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Abstract (en)
A crimped conjugate fiber of the present invention is a conjugate fiber containing a first component and a second component, the first component containing polybutene-1 and linear low density polyethylene, the linear low density polyethylene content being 2 to 25 mass%, the second component 2 containing a polymer having a melting peak temperature at least 20°C higher than the melting peak temperature of polybutene-1 or a polymer having a melting initiation temperature of 120°C or higher, when viewed from a fiber cross-section, the first component occupies at least 20% of the surface of the conjugate fiber 10 and the centroid position of the second component not overlapping the centroid position of the conjugate fiber, the conjugate fiber is an actualized crimping conjugate fiber in which three-dimensional crimps have been developed or a latently crimpable conjugate fiber in which three-dimensional crimps are developed by heating. Accordingly, a crimped conjugate fiber having high elasticity, a high level of bulk recovery properties, and high durability against repetitive compression as well as high elasticity, a high level of bulk recovery properties, and high durability when used at high temperatures, and a fiber assembly that uses the crimped conjugate fiber are provided.

IPC 8 full level
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