

Title (en)

A BI-COMPONENT FIBER FOR CUSHION MEMBERS

Title (de)

ZWEIKOMPONENTENFASER FÜR POLSTERELEMENTE

Title (fr)

FIBRE À DEUX COMPOSANTS POUR DES ÉLÉMENTS D'AMORTISSEMENT

Publication

**EP 4363645 A1 20240508 (EN)**

Application

**EP 22740842 A 20220629**

Priority

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- EP 2022067939 W 20220629

Abstract (en)

[origin: WO2023275165A1] A multi-component binder fiber for heat bonded nonwoven used in cushion members. A first component of the multi-component fiber comprises a first thermoplastic polymer, and a second component of the multi-component fiber comprises a second thermoplastic polymer. The second thermoplastic polymer is a block-copolymer. The block-copolymer is a co-polyester polyether comprising first blocks of a polyester and second blocks of an aliphatic polyether. The polyester in the first blocks comprises residues of a first alkylene diol, residues of terephthalic acid (benzene-1,4-dicarboxylic acid), and residues of isophthalic acid (benzene-1,3-dicarboxylic acid). The aliphatic polyether in second blocks comprises residues of a second alkylene diol. The melting point of the first thermoplastic polymer is at least 200 °C. Further, the molar ratio of residues of terephthalic acid to residues of isophthalic acid in the first blocks of the polyester is 2:1 to 4:1 and the molar ratio of residues of the first alkylene diol of the polyester to the residues of the second alkylene diol of the aliphatic polyether is at least 1:1.

IPC 8 full level

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