

Title (en)

Reversible, heat-set, elastic fibers, and method of making and articles made from same

Title (de)

Reversible thermofixierte elastische Fasern, Herstellungsverfahren und daraus hergestellte Artikel

Title (fr)

Fibres élastiques réversibles à stabilisation thermique et procédé de fabrication et articles fabriqués à partir de ceux-ci.

Publication

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Application

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Priority

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Abstract (en)

A reversible, heat-set covered fiber is described, the covered fiber comprising: A. A core comprising an elastic fiber comprising a substantially crosslinked, temperature-stable, olefin polymer; and B. A cover comprising an inelastic fiber. The fiber is heat-set by a method comprising: (a) Stretching the covered fiber by applying a stretching force to the covered fiber (b) Heating the stretched covered fiber of (a) to a temperature in excess of the crystalline melting point of the olefin polymer for a period of time sufficient to at least partially melt the olefin polymer; (c) Cooling the stretched and heated covered fiber of (b) to a temperature below the crystalline melting point of the olefin polymer for a period of time sufficient to solidify the polymer; and (d) Removing the stretching force from the covered fiber.

IPC 8 full level

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