

Title (en)

Chlorine resistant elastane fibres protected against color change

Title (de)

Gegen Farbänderung geschützte chlorbeständige Elastanfasern

Title (fr)

Fibres d'elastane résistants au chlore et protégées contre le changement de couleur

Publication

EP 1607499 A1 20051221 (DE)

Application

EP 05012586 A 20050611

Priority

DE 102004029274 A 20040617

Abstract (en)

Polyurethane urea fibers (A) (with decreased inclination to color change during a thermal treatment and high chlorine stability of at least 85% segmented polyurethane urea) comprises 0.30-10 wt.% of finely divided hydrotalcite (I), which is coated with 1-5 wt.%, related to the weight of the coated hydrotalcite, of dialkylsulfosuccinate (II). Polyurethane urea fibers (A) (with decreased inclination to color change during a thermal treatment and high chlorine stability of at least 85% segmented polyurethane urea) comprises 0.30-10 wt.% of finely divided hydrotalcite (I) of formula $(M1-x)2+Alx(OH)2Ax/n-n\cdot mH_2O$, where the hydrotalcite is coated with 1-5 wt.%, related to the weight of the coated hydrotalcite, of dialkylsulfosuccinate (II). $M2+$ magnesium; $A-n$ anion with valence number n of OH^- , CO_3^{2-} (preferred) or silicate; x : less than 0 or less than or equal to 0.5; and m : less than 0 or 1. Independent claims are also included for: (1) the preparation of (A); and (2) textile goods (preferably cord, knitwear or fabrics) prepared using (A) (preferably in mixture with synthetic fibers like polyamide, polyester or polyacryl fibers and/or with natural fibers like wool, silk or cotton).

Abstract (de)

Die Erfindung betrifft elastische Polyurethanharnstofffasern, die im Rahmen der erforderlichen Prozessschritte zur Herstellung von Gewirken bzw. Stoffen oder Textilien, z.B. der Thermofixierung oder des Mouldings, keine unerwünschten Verfärbungen zeigen und in wässrigen, chlorhaltigen Umgebungen, wie beispielsweise in Schwimmbädern für Badebekleidung eingesetzt werden können und ein Verfahren zu ihrer Herstellung. Die Polyurethanharnstofffasern enthalten mit Dialkylsulfosuccinaten beschichtete Hydrotalcite.

IPC 1-7

D01F 6/70; **D01F 1/10**

IPC 8 full level

D01F 1/10 (2006.01); **D01F 6/70** (2006.01); **D03D 15/56** (2021.01)

CPC (source: EP KR US)

D01D 1/065 (2013.01 - KR); **D01F 1/10** (2013.01 - EP KR US); **D01F 6/70** (2013.01 - EP KR US); **D06M 11/45** (2013.01 - KR); **D06M 2101/38** (2013.01 - KR); **D06M 2200/30** (2013.01 - KR); **D10B 2331/10** (2013.01 - KR); **D10B 2401/04** (2013.01 - KR)

Citation (search report)

- [A] EP 0843031 A2 19980520 - BAYER AG [DE]
- [A] EP 1329419 A1 20030723 - KYOWA CHEM IND CO LTD [JP]
- [A] EP 0934978 A1 19990811 - BAYER AG [DE]
- [A] WO 0104202 A1 20010118 - BAYER AG [DE], et al & EP 1200518 A1 20020502 - BAYER AG [DE], et al

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DOCDB simple family (publication)

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