Title (en)

High resistance core-sheath monofilaments for technical applications

Title (de)

Hochbelastbare Kern/Mantel-Monofilamente für technische Anwendungen

Title (fr)

Monofilaments âme-gaine à haute résistance pour applications techniques

Publication

EP 0735166 B1 19991027 (DE)

Application

EP 96104134 A 19960315

Priority

DE 19511852 A 19950331

Abstract (en)

[origin: EP0735166A2] Core-sheath monofilaments with the following structure :(A) a (co)polyester (X) core with m.pt. 165-290 (220-240) degrees C and comprising ≥ 70 mol.% aromatic dicarboxylic acids (C) and aliphatic diols (D) (w.r.t. all polyester units) and NOTGREATER 30 mol.% other dicarboxylic acids (C1), arylaliphatic dicarboxylic acids (C2) with NOTLESS 1 (1-2) (non-)condensed aromatic rings or 4-12 (6-10) C acyclic aliphatic dicarboxylic acids (C3) and other aliphatic diols (D1), 3-10 (3-6) C branched and/or long chain diols (D2), cyclic diols (D3), ether diols (D4) or even a v. small amt. of polyglycol (D5) having mol. wt. 500-2000 ; and (B) a sheath comprising a thermoplastic polyester (Y) with m.pt. 165-240 (220-240) degrees C, thermoplastic elastomer PU (Z) and opt. standard non-polymer additives. Also claimed are: (i) prepn. of the yarns; (ii) high mechanical and chemical resistance textiles, paper machine wires, spiral fabrics, screen printing blankets, industrial filter cloths and conveyor belts contg. these yarns; and (iii) use of the yarns for making these textile prods.

IPC 1-7

D01F 8/14

IPC 8 full level

D01D 1/04 (2006.01); **D01D 5/34** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP US)

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