

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 A3 19970507 (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)
D01F 8/14 (2013.01 - EP US); **Y10T 428/2929** (2015.01 - EP US); **Y10T 428/2931** (2015.01 - EP US)

Citation (search report)
• [PA] EP 0674029 A1 19950927 - HOECHST AG [DE] & DE 4410399 A1 19950928 - HOECHST AG [DE]
• [A] WO 8301253 A1 19830414 - BHATT GIRISH M
• [A] EP 0387395 A2 19900919 - JWI LTD [CA]

Cited by
DE202011003102U1; DE102011011126A1; WO2004013393A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 0735166 A2 19961002; EP 0735166 A3 19970507; EP 0735166 B1 19991027; AT E186084 T1 19991115; BR 9601228 A 19980106; CA 2173040 A1 19961001; CN 1068077 C 20010704; CN 1141358 A 19970129; DE 19511852 A1 19961002; DE 59603452 D1 19991202; ES 2140739 T3 20000301; JP H08291427 A 19961105; MX 9601190 A 19970329; TW 353682 B 19990301; US 5652057 A 19970729

DOCDB simple family (application)
EP 96104134 A 19960315; AT 96104134 T 19960315; BR 9601228 A 19960401; CA 2173040 A 19960329; CN 96103947 A 19960329; DE 19511852 A 19950331; DE 59603452 T 19960315; ES 96104134 T 19960315; JP 7896496 A 19960401; MX 9601190 A 19960328; TW 85103624 A 19960326; US 62571396 A 19960328