

Title (en)

Polyester fibres and filaments and process for their production

Title (de)

Polyesterfasern und -filamente sowie Verfahren zu deren Herstellung

Title (fr)

Fibres et filaments en polyester et procédé pour les produire

Publication

**EP 0987353 B1 20031105 (DE)**

Application

**EP 99117671 A 19990907**

Priority

- DE 19842463 A 19980916
- DE 19935145 A 19990727

Abstract (en)

[origin: EP0987353A1] Polyethylene terephthalate contains 0.1-4 wt.% small rod shaped inclusions of polymethyl methacrylate (PMMA) with  $M_w = 2 \times 10^4$ - $2 \times 10^5$ . The fibres and filaments are produced with a draw off speed  $\leq 8000$  m/minute. Polyethylene terephthalate (PET) fibres and filaments, produced with a draw off speed  $\leq 8000$  m/minute from PET containing 0.1-4 wt.% polymethyl methacrylate (PMMA) with a weight average molecular weight ( $M_w$ ) =  $2 \times 10^4$ - $2 \times 10^5$  in the form of small rod shaped inclusions with a lateral particle size 800 nm (measured in extruded, unoriented filaments). An Independent claim is also included for production of PET fibres and filaments by polycondensation of or melting and then melt spinning PMMA modified PET to form unoriented filaments, with the PMMA inclusions.

IPC 1-7

**D01F 6/92**

IPC 8 full level

**D01F 6/62** (2006.01); **D01F 6/92** (2006.01)

CPC (source: EP KR US)

**D01F 6/62** (2013.01 - KR); **D01F 6/92** (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2969** (2015.01 - EP US)

Cited by

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DE ES IE IT

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**EP 0987353 A1 20000322**; **EP 0987353 B1 20031105**; BR 9904204 A 20000905; CN 1159475 C 20040728; CN 1260411 A 20000719; ES 2210929 T3 20040701; ID 23998 A 20000614; KR 20000023034 A 20000425; MX PA99008258 A 20041126; TR 199902159 A2 20000821; TR 199902159 A3 20000821; TW 490513 B 20020611; US 6235389 B1 20010522; US 6544456 B1 20030408

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