

Title (en)

POLY(ETHYLENETEREPHTHALATE) DRAWN FIBER, TIRE-CORD, AND METHOD OF MANUFACTURING THE  
POLY(ETHYLENETEREPHTHALATE) DRAWN FIBER AND THE TIRE-CORD

Title (de)

GEZOGENE POLY(ETHYLENTEREPHTHALAT)FASER , REIFENCORD SOWIE HERSTELLUNGSVERFAHREN FÜR DIE GEZOGENE  
POLY(ETHYLENTEREPHTHALAT-) FASER UND REIFENCORD

Title (fr)

FIBRE ÉTIRÉE DE POLY(TÉRÉPHTALATE D'ÉTHYLÈNE), CÂBLE POUR PNEU ET LEUR PROCÉDÉ DE FABRICATION

Publication

**EP 2660370 B1 20190306 (EN)**

Application

**EP 11853427 A 20111228**

Priority

- KR 20100138191 A 20101229
- KR 2011010237 W 20111228

Abstract (en)

[origin: EP2660370A2] The present invention relates to a drawn poly(ethyleneterephthalate) (PET) fiber exhibiting excellent dimensional stability and uniform properties while having high fineness of 2000 denier or more, a tire cord, and their preparation method. The drawn PET fiber includes PET 90 mol% or more, and has a crystallinity of 40 to 50%, an amorphous orientation factor (AOF) of 0.01 to 0.2, a monofilament fineness of 2.5 to 4.0 denier, a coefficient of variation (CV) of cross sectional area of 8.0 % or less, and a total fineness of 2000 to 4000 denier.

IPC 8 full level

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CPC (source: EP US)

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**D02J 1/22** (2013.01 - EP US); **D10B 2331/04** (2013.01 - EP US); **Y10T 428/298** (2015.01 - EP US)

Citation (examination)

- US 6312634 B1 20011106 - CHO EUN LAI [KR], et al
- N S MURTHY ET AL: "Measurement of Amorphous Orientation in Poly (ethylene terephthalate) Fibers by X-Ray Diffraction and Its Significance INTRODUCTION", J APPL POLYM SCI, 1 January 1997 (1997-01-01), pages 1363 - 1371, XP055404447, Retrieved from the Internet <URL:http://onlinelibrary.wiley.com/doi/10.1002/%28SICI%291097-4628%2819970516%2964:7%3C1363::AID-APP16%3E3.0.CO;2-Y/pdf> [retrieved on 20170906]

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