

Title (en)

PROCESS FOR PRODUCING A HIGH-STRENGTH, HIGH-SHRINKAGE POLYAMIDE 66 FILAMENT YARN

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HOCHFESTEN, HOCHSCHRUMPFENDEN POLYAMID-66-FILAMENTGARNES

Title (fr)

PROCEDE DE FABRICATION D'UN FIL CONTINU EN POLYAMIDE 66 A HAUTE RESISTANCE ET A RETRAIT ELEVE

Publication

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Application

**EP 96926310 A 19960820**

Priority

- CH 9600288 W 19960820
- CH 241595 A 19950824

Abstract (en)

[origin: WO9708371A1] In a process for producing a high-strength, high-shrinkage polyamide 66 filament yarn for industrial fabrics, especially air-bag fabrics, by the multi-stage stretching of polyamide 66 LOY filament (1) with a relative viscosity RV of at least 40 by means of at least three heatable sets of stretching rollers (2, 3, 4) with the immediate winding of the stretched yarn (5) on a cylindrical core (6), the temperature of the last set (4) of stretching rollers before winding is set to between 70 and 160 DEG C before winding, with a relaxation ratio of 4 to 10 %, and the winding tension is set to under 0.2 cN/dtex. The polyamide 66 filament yarn has a strength of at least 60 cN/tex, an expansion of 10-25 % and a heat-shrinkage of 7-11 % (160 DEG C) and is eminently suitable for making air-bag fabrics. The yarn is wound on a package tube (cross-wound package) at at least 6 kg.

IPC 1-7

**D02J 1/22**

IPC 8 full level

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CPC (source: EP KR US)

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