

Title (en)

FILLING YARN AND METHOD FOR PRODUCING IT FROM THERMALLY PROTECTED POLYAMIDE 6.6 FOR TYRE CORD FABRIC

Title (de)

SCHUSSGARN UND VERFAHREN ZUR HERSTELLUNG EINES SCHUSSGARNS AUS EINEM WÄRMEGESCHÜTZTEN POLYAMID 66 FÜR REIFENKORDGEWEBE

Title (fr)

FIL DE TRAME ET PROCEDE DE FABRICATION D'UN FIL DE TRAME A PARTIR D'UN POLYAMIDE 6.6 THERMOPROTEGE POUR TISSU POUR CABLE POUR PNEU

Publication

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Application

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Abstract (en)

[origin: WO9850612A1] The invention relates to a filling yarn made of a thermally protected polyamide 6.6 multifilament for tyre cord fabric with a total titer of 100-400 dtex. This filling yarn is also raw yarn, and is characterized by: a SLASE of 6 cN/tex to 12 cN/tex at 80 % elongation; a maximum tensile stress strain of 150 % to 300 %; a strength of > 14 cN/tex; a reversibility limit of 5 cN/tex to 10 cN/tex; a thermal shrinkage force of 0.15 cN/tex to 0.8 cN/tex at 160 DEG C; free shrinkage > 1 % at 160 DEG C. The invention also relates to a method for producing a filling yarn from thermally protected polyamide 6.6 multifilament for tyre cord fabric. In this method, polyamide LOY filaments are stretched between 10 and 200 % before being swirled at least 10 knots/m by a compressed gas.

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