Title (en)

THERMOTROPIC AROMATIC POLYESTER(AMIDE) MONOFILAMENT

Title (de)

MONOFILAMENT AUS AROMATISCHEN THERMOTROPEN POLYESTER(AMIDE)

Title (fr)

MONOFILAMENT EN POLYESTER(AMIDE) AROMATIQUE THERMOTROPE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9855674A1] The invention concerns a thermotropic aromatic polyester(amide) as-spun monofilament, verifying the following relationships: D >/= 40; Te > 45; DELTA L >/= 0, D being its diameter (in mu m), Te its toughness (in cN/tex), and DELTA L being its variation in length (in %) after 2 minutes at 235 +/- 5 DEG C under prestress of 0.2 cN/tex. The invention also concerns the spinning method for obtaining such a monofilament, consisting in particular, at the die outlet, in structuring the polymer flow by drawing it in a gas fluid layer for a predetermined duration which is a function of the diameter D, before the resulting structured polymer flow is hot-dipped in a liquid for its solidification.

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