

Title (en)
THERMOTROPIC AROMATIC POLYESTER(AMIDE) MONOFILAMENT

Title (de)
MONOFILAMENT AUS AROMATISCHEN THERMOTROPEN POLYESTER(AMIDE)

Title (fr)
MONOFILAMENT EN POLYESTER(AMIDE) AROMATIQUE THERMOTROPE

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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: $D \geq 40$; $T_e > 45$; $\Delta L \geq 0$, D being its diameter (in μm), T_e its toughness (in cN/tex), and ΔL 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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