

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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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  $\mu m$ ),  $T_e$  its toughness (in cN/tex), and  $\Delta L$  being its variation in length (in %) after 2 minutes at  $235 \pm 5$  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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