

Title (en)
METHOD FOR THE SPINNING AND WINDING OF POLYESTER FILAMENTS, POLYESTER FILAMENTS OBTAINED BY THE SPINNING METHOD, DRAW TEXTURING OF THE POLYESTER FILAMENTS AND BULKED POLYESTER FILAMENTS OBTAINED BY DRAW TEXTURING

Title (de)
VERFAHREN ZUM SPINNEN UND AUFSPULEN VON POLYESTER-FILAMENTEN, DURCH DAS SPINN-VERFAHREN ERHÄLTISCHE POLYESTER-FILAMENTE, STRECKTEXTURIERUNG DER POLYESTER-FILAMENTE SOWIE DURCH DIE STRECKTEXTURIERUNG ERHÄLTISCHE BAUSCHIGE POLYESTER-FILAMENTE

Title (fr)
PROCEDE DE FILAGE ET D'ENROULEMENT DE FILAMENTS POLYESTER, DES FILAMENTS POLYESTER OBTENUS PAR CE PROCEDE DE FILAGE, ETIRAGE-TEXTURATION DES FILAMENTS POLYESTER ET FILAMENTS POLYESTER TEXTURES OBTENUS PAR ETIRAGE-TEXTURATION

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Abstract (en)
[origin: WO0236864A1] The invention relates to a method for the production and winding of pre-oriented polyester filaments, comprising at least 90 wt. %, based on the total weight of polyester filament, polybutylene terephthalate (PBT) and/or polytrimethylene terephthalate (PTMT), preferably PTMT, characterised in that a) the spinning draft is set in the range 70 to 500, b) directly after exiting the spinning nozzle, the filaments run through a cooling delay zone of 30 mm to 200 mm in length, c) the filaments are cooled to below the solidification temperature, d) the filaments are bundled at a separation of between 500 mm and 2500 mm from the bottom face of the nozzle, e) the thread tension, before and between the drawing galettes is set to between 0.05 cN/dtex and 0.20 cN/dtex, f) the threads are wound with a thread tension of between 0.025 cN/dtex and 0.15 cN/dtex, g) the winding speed is set to between 2200 m/min and 6000 m/min and h) a polyester is used with 0.05 wt. % to 2.5 wt. %, based on the total weight of the filament, of added additive polymer as extensibility improver.

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