

Title (en)
POLYESTER-STAPLE FIBERS AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
POLYESTER-STAPELFASERN UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)
FIBRES DISCONTINUES EN POLYESTER ET PROCEDE DE FABRICATION DESDITES FIBRES

Publication
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Application
EP 00954560 A 20000725

Priority
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Abstract (en)
[origin: US6576339B1] Polyester staple fibres consisting of a polyester, from 0.1 to 2.0% by weight of an incompatible, thermoplastic, amorphous, polymeric additive having a glass transition temperature of from 90 to 170° C. and a ratio of its melt viscosity to that of the polyester component of from 1:1 to 10:1, and from 0 to 5.0% by weight of conventional additives, where the polymeric additive is present in the staple fibres in the form of fibrils having a mean diameter of <=80 nm. Process for the production of these staple fibres by mixing with shearing of the polyester and of the polymeric additive and, optionally, of the conventional additives, spinning at a spinning take-off speed of <2500 m/min to give spun filaments, which are combined to form tows and stretched in a separate fibre stretching stage, crimped, dried and chopped to give staple fibres.

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IPC 8 full level
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