

Title (en)

POLYMERIC BLENDS BASED ON POLYPROPYLENE AND POLYBUTYLENE TEREPHTHALATE RESINS

Title (de)

POLYMERISIERBARE MISCHUNGEN AUF DER BASIS VON POLYPROPYLEN- UND POLYBUTYLENTEREPHTHALAT-HARZEN

Title (fr)

MELANGES POLYMERES A BASE DE RESINES POLYPROPYLENE ET POLYBUTYLENE-TEREPHTALATE

Publication

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Application

EP 94930367 A 19940826

Priority

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- NO 9400139 W 19940826

Abstract (en)

[origin: WO9606871A1] A process of producing a compatibilized blend of polypropylene and polybutylene terephthalate resins by a continuous single step extrusion process performed in an extruder, preferably in an inert atmosphere, comprising the steps of: (i) introducing into a first feed zone of the extruder a polypropylene polymer, an allylepoxy compound, a styrenic compound and a peroxide initiator; the reagents being heated to a temperature which is higher than the melting point of the polypropylene polymer and the decomposition temperature of said peroxide while being subjected to continuous intimate mixing; and (ii) introducing a polybutylene terephthalate into a second feed zone of the extruder downstream of the first one, at a position where said polypropylene polymer of step (i) is in a molten state to achieve a melting and intimate mixing of said polybutylene terephthalate with said melted polypropylene resin; and (iii) extruding the obtained blend. A compatibilized blend of polypropylene and polybutylene terephthalate polymers, having synergistic properties of both said polymers, is obtained by the process. The obtained blend may be used as an engineering plastic in manufacturing articles for technical use.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 9606871A1

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