

Title (en)
METHOD FOR PREPARING A POLYSILOXANE-POLYCARBONATE BLOCK COPOLYMER USING AT LEAST ONE SPECIAL CONDENSATION REACTOR

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES POLYSILOXAN-POLYCARBONAT-BLOCKCOPOLYMERS UNTER VERWENDUNG MINDESTENS EINES SPEZIAL-KONDENSATIONSREAKTORS

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UN COPOLYMÈRE À BLOCS DE POLYSILOXANE-POLYCARBONATE À L'AIDE D'AU MOINS UN RÉACTEUR DE CONDENSATION SPÉCIAL

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Application
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Abstract (en)
[origin: WO2023006512A1] The present invention relates to a multi-stage method for continuously preparing a polysiloxane-polycarbonate block copolymer by means of polycondensation, the method being characterised in that, in a first stage, an oligocarbonate and a hydroxyaryl-terminated polysiloxane are provided and, in a second stage, at least one special condensation reactor is used; preferably, in a second stage, exactly one special condensation reactor is used or exactly two special condensation reactors are used. The method is also characterised in that a certain quantity of a certain co-catalyst is added and this co-catalyst is added before the first special condensation reactor. The polysiloxane-polycarbonate block copolymer prepared by the method according to the invention has a high proportion of small polysiloxane domains and is characterised by good mechanical properties, in particular by a tough fracture behaviour in the notch impact test according to ISO 7391 / ISO 180A, by good processability, for example in injection moulding or in extrusion, and by good flowability.

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