

Title (en)

METHOD FOR PRODUCING A POLY(ANTHRANILAMIDE), POLY(ANTHRANILAMIDE) AND USE THEREOF

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES POLY(ANTHRANILAMIDS), POLY(ANTHRANILAMID) UND DESSEN VERWENDUNG

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN POLY(ANTHRANILAMIDE), POLY(ANTHRANILAMIDE) ET SON UTILISATION

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Application

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Abstract (en)

[origin: WO2022008449A1] The invention relates to a method for producing a poly(anthranilamide) via the polymerisation of isatoic anhydride, preferably in the presence of a solvent, on a starter at a reaction temperature in the region of 110 °C to 300 °C, wherein the starter comprises an aliphatic mono- or diamine with 5 to 13 carbon atoms, an araliphatic mono- or diamine with 7 to 15 carbon atoms, an aromatic diamine with 6 to 13 carbon atoms, a carboxylic acid amide of formula Ar-(C=O)NHR, where Ar represents an aromatic group substituted with an amine NH- or NH₂ group and R represents an aromatic or aliphatic group, or a mixture of the above-mentioned starters, and wherein the solvent, if used, comprises an organic solvent, which is in liquid form at the reaction temperature, an ionic liquid or a mixture of these solvents, obtaining a poly(anthranilamide) based on the starter. The invention also relates to the poly(anthranilamide) obtained with the method according to the invention and to the use thereof in the production of fibres or composite materials.

IPC 8 full level

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