Title (en)

PROCESS FOR PRODUCING POLYETHER CARBONATE POLYOLS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYETHERCARBONATPOLYOLEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE POLYÉTHER CARBONATE POLYOLS

Publication

EP 4121476 A1 20230125 (DE)

Application

EP 21712148 A 20210312

Priority

- EP 20163673 A 20200317
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Abstract (en)

[origin: WO2021185710A1] The invention relates to a process for starting up a reactor for the continuous production process of polyether carbonate polyols by the addition of alkylene oxide and carbon dioxide in the presence of a DMC catalyst and/or a metal complex catalyst based on the metals cobalt and/or zinc to an H-functional starter substance, in which process: (α) a portion of the H-functional starter substance and/or a suspension medium which has no H-functional groups is/are mixed in a reactor with a DMC catalyst and/or a metal complex catalyst based on the metals zinc and/or cobalt, the DMC catalyst and/or the metal complex catalyst having a concentration s in the mixture; and (γ), after step (α), the H-functional starter substance, alkylene oxide and DMC catalyst and/or a metal complex catalyst based on the metals zinc and/or cobalt are continuously fed into the reactor during the addition process and the resulting reaction mixture is removed from the reactor, and a steady state is achieved, characterised in that in step (α), the concentration s of the catalyst used, in relation to the mixture resulting from step (α), is in the range of 10 y ≥ s ≥ 1.1 y, where y is the catalyst concentration, in relation to the reaction mixture in step (γ), of the steady state in step (γ), and in that in step (γ), alkylene oxide is fed in at a mass flow rate of X1 and X1 is continuously increased until the mass flow rate X2, which is required for the steady state in the reactor, is achieved, and the time until X2 is achieved is at least one hour.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2021185710A1

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