

Title (en)

PROCESS FOR PRODUCING POLYOXYMETHYLENE POLYMERS HAVING INTERMEDIATE CHAIN LENGTH

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYOXYMETHYLEN-POLYMEREN MIT MITTLERER KETTENLÄNGE

Title (fr)

PROCÉDÉ DE PRÉPARATION DE POLYMÈRES DE POLYOXYMÉTHYLÈNE DE LONGUEUR DE CHAÎNE INTERMÉDIAIRE

Publication

EP 3883979 A1 20210929 (DE)

Application

EP 19804731 A 20191120

Priority

- EP 18207740 A 20181122
- EP 2019081903 W 20191120

Abstract (en)

[origin: WO2020104512A1] A process for producing polyoxymethylene polymers comprises the reaction of aqueous formaldehyde solution with an aqueous solution of a base, wherein A) a starter solution comprising formaldehyde is initially charged and B) an aqueous formaldehyde solution and a base are added to the starter solution to obtain a reaction mixture. The starter solution in step A) has a temperature of $\geq 40^{\circ}\text{C}$ to $\leq 46^{\circ}\text{C}$ and the additions of the solutions in step B) are performed at a temperature of the reaction mixture of $\geq 40^{\circ}\text{C}$ to $\leq 46^{\circ}\text{C}$. The base is an alkali metal hydroxide and/or an alkaline earth metal hydroxide and the molar ratio of formaldehyde to base is $\geq 55:1$ to $\leq 90:1$ based on the total amounts of formaldehyde and base employed in the process. The base in step B) is added in aqueous solution.

IPC 8 full level

C08G 2/08 (2006.01); **C08G 2/06** (2006.01); **C08G 2/18** (2006.01)

CPC (source: EP US)

C08G 2/06 (2013.01 - EP US); **C08G 2/08** (2013.01 - EP US); **C08G 2/18** (2013.01 - EP)

Citation (search report)

See references of WO 2020104512A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3656796 A1 20200527; CN 113272348 A 20210817; EP 3883979 A1 20210929; US 2022002467 A1 20220106;
WO 2020104512 A1 20200528

DOCDB simple family (application)

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