

Title (en)

POLYMERS COMPRISING HYDROXYL GROUPS AND ESTER GROUPS AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

HYDROXYLGRUPPEN UND ESTERGRUPPEN TRAGENDE POLYMERE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

POLYMÈRES COMPORTANT DES GROUPES HYDROXYLE ET DES GROUPES ESTER ET LEUR PROCÉDÉ DE PRODUCTION

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Application

EP 11794410 A 20111208

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Abstract (en)

[origin: WO2012089300A2] The invention relates to polymers comprising ester/hydroxyl groups, containing repetitive structural units of formulae (I) and (II) in blocks, alternatively or statistically in her Abfolge (I), (II) wherein D represents a direct bond between the polymer backbone and the hydroxyl group, a C-1 to C6-alkylene group, a C5- to C12-arylene group, a oxyalkylene group of formula -O-R2-, an ester group of formula -C(O)-O-R2- or an amide group of formula -C(O)-N(R3)R2-, E represents a hydrocarbon group having 1 to 10 C-atoms, R1 represents hydrogen, a hydrocarbon group having 1 to 50 C-atoms or an acyl group of formula -C(O)-R4, R2 represents a C2- to C10-alkylene group, R3 represents hydrogen or a C1- to C10-alkyl group, which can have substituents, R4 represents a hydrocarbon group having 1 to 50 C-atoms, A represents a C2- to C10-alkylene group, k represents a number between 1 and 100, n represents a number from 0 to 4999, m represents a number from 1 to 5000, n+m for a number from 10 to 5000, under the proviso that a) the molar fraction of the structural units (I) on the polymer is between 0 and 99,9 mol-%, and b) the molar fraction of the structural units (II) on the polymers between 0.1 and 100 mol-% of repetitive units. The invention also relates to a method for the production of said polymers by exposing a polymer reaction mixture containing hydroxyl groups and ether carbon esters to microwaves.

IPC 8 full level

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Citation (search report)

See references of WO 2012089300A2

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