

Title (en)

POLYETHYLENE-TYPE MATERIALS, THE SOLVOLYSIS THEREOF AND PRODUCTION OF FINISHED PARTS THEREFROM

Title (de)

POLYETHYLEN-ARTIGE MATERIALIEN, IHRE SOLVOLYSE UND HERSTELLUNG VON FERTIGTEILEN DARAUS

Title (fr)

MATIÈRES DE TYPE POLYÉTHYLÈNE, LEUR SOLVOLYSE ET FABRICATION À PARTIR DESDITES MATIÈRES D'ÉLÉMENTS PRÉFABRIQUÉS

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Application

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Abstract (en)

[origin: WO2021224303A2] According to a first aspect, the invention relates to a polyethylene-type polymer comprising methylene groups (CH₂) and at least one functional group selected from group O-C(=O) and group O-C(=O)-O, the polyethylene-type polymer having a number-average molecular weight (M_n) in the range of 20,000 to 10,000,000 g/mol. In a second aspect, the invention relates to a method for producing specific monomers of general formula (II) and/or specific oligomers of general formula (III). In a third aspect, the invention relates to a composition comprising a monomer of general formula (II) and/or an oligomer of general formula (III), the composition being obtained or obtainable by means of the method of the second aspect. A fourth aspect of the invention relates to the use of the composition according to the third aspect to produce polymers. A fifth aspect of the invention relates to a method for producing a finished part, comprising: - provision of a material having a polyethylene-type polymer; and - primary forming of the material. A sixth aspect of the invention relates to a method for producing a finished part from a material, the material having a polyethylene-type polymer, wherein the finished part is produced by means of an additive manufacturing method.

IPC 8 full level

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Citation (search report)

See references of WO 2021224303A2

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