

Title (en)

MOLDING MATERIALS COMPRISING HIGHLY CROSSLINKED ORGANIC NANOPARTICLES

Title (de)

FORMMASSEN MIT HOCHVERNETZTEN ORGANISCHEN NANOPARTIKELN

Title (fr)

MATIÈRES MOULABLES CONTENANT DES NANOPARTICULES ORGANIQUES HAUTEMENT RÉTICULÉES

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Application

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Abstract (en)

[origin: WO2008043683A1] Thermoplastic molding materials comprising A) from 10 to 99.9% by weight of a thermoplastic polymer, B) from 0.01 to 10% by weight of a copolymer obtainable by free-radically initiated aqueous emulsion polymerization of ethylenically unsaturated monomers in the presence of at least one dispersant and of at least one free-radical initiator by the feed process, wherein, for the emulsion polymerization, from 70 to 99.5% by weight of a,b-monoethylenically unsaturated compounds [monomers A], and from 0.5 to 30% by weight of compounds with at least two free-radically copolymerizable ethylenically unsaturated groups [monomers B], and optionally up to 5% by weight of a,b-monoethylenically unsaturated mono- or dicarboxylic acids having from 3 to 6 carbon atoms and/or amides thereof [monomers C] are used, where the monomers A to C add up to 100% by weight (total amount of monomers) and the monomer feeds are effected such that = 60% by weight of the total amount of monomers B is added to the polymerization mixture under polymerization conditions at a time after which = 60% by weight of the total amount of monomers has been metered into the polymerization mixture under polymerization conditions, C) from 0 to 70% by weight of further additives, where the sum of the percentages by weight of components A) to C) adds up to 100%.

IPC 8 full level

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See references of WO 2008043683A1

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