

Title (en)

IMPACT MODIFIER AND USES THEREOF IN THERMOSET MATERIALS

Title (de)

ELASTIFIKATOR UND SEINE VERWENDUNG FÜR WÄRMEHÄRTENDE STOFFE

Title (fr)

MODIFIANT CHOC ET UTILISATIONS DUDIT MODIFIANT CHOC DANS LES MATERIAUX THERMODURS

Publication

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Application

**EP 12717369 A 20120323**

Priority

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Abstract (en)

[origin: WO2012131242A1] The invention relates to an impact modifier and a device and a method for the production thereof, as well as to a method for preparing a thermoset material, or a thermoset material precursor, from the impact modifier. The impact modifier comprises at least one copolymer selected from among A-B-A, A-B and A-B-C type block copolymers, in which: each block is linked to the other by means of a covalent bond or an intermediate molecule that is connected to one of the blocks by a covalent bond and to the other block by another covalent bond; A is a PMMA homopolymer or a copolymer of methyl methacrylate, A preferably being compatible with the resin; C is either (i) a PMMA homopolymer or a copolymer of methyl methacrylate or (ii) a polymer based on monomers or a mixture of vinyl monomers, and blocks A and C can be identical; and B is incompatible or partially compatible with the thermoset resin and incompatible with block A and optional block C. The impact modifier is characterised in that it takes the form of microgranules having a diameter of less than 1500 µm, advantageously less than 1000 µm, preferably between 400 and 1000 µm. The ratio of the standard deviation/mean size of the particles is less than 10%, preferably less than 5%.

IPC 8 full level

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Citation (search report)

See references of WO 2012131242A1

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