

Title (en)
FLAME-RETARDANT POLYCARBONATE MOLDING MATERIALS II

Title (de)
FLAMMGESCHÜTZTE POLYCARBONATFORMMASSEN II

Title (fr)
MATIÈRES MOULABLES À BASE DE POLYCARBONATE IGNIFUGÉES II

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Abstract (en)

[origin: WO2014086944A1] The invention relates to flame-retardant, impact-modified, high-temperature-stable polycarbonate (PC) compositions and molding materials that have high hydrolysis stability, containing A) 48 - 95 parts by weight of aromatic polycarbonate and/or aromatic polyester carbonate, B) 1.0 - 20.0 parts by weight of rubber-modified graft polymer, C) 1.0 - 20.0 parts by weight of at least one cyclic phosphazene according to formula (X), wherein k stands for 1 or an integer number from 1 to 10, preferably for a number from 1 to 8, especially preferably 1 to 5, wherein the trimer portion (k=1) is 60 to 98 mol % with respect to component C and wherein each R is the same or different and stands for an amine residue, C1 to C8 alkyl, preferably methyl, ethyl, propyl, or butyl, which is optionally halogenated, preferably halogenated with fluorine, C1 to C8 alkoxy, preferably methoxy, ethoxy, propoxy, or butoxy, C5 to C6 cycloalkyl, which is optionally substituted with alkyl, preferably with C1 to C4 alkyl, and/or with halogen, preferably with chlorine and/or bromine, C6 to C20 aryloxy, preferably phenoxy or naphthyloxy, which is optionally substituted with alkyl, preferably with C1 to C4 alkyl, and/or with halogen, preferably with chlorine or bromine, and/or with hydroxy, C7 to C12 aralkyl, which is optionally substituted with alkyl, preferably with C1 to C4 alkyl, and/or with halogen, preferably with chlorine and/or bromine, preferably phenyl C1 to C4 alkyl, or a halogen residue, preferably chlorine, or an OH residue, D) 1.0 - 7.0 parts by weight of at least one organic flame-retardant agent which contains phosphorus and is different from C, E) 0 - 15.0 parts by weight of rubber-free vinyl (co)polymer or polyalkylene terephthalate, F) 0 - 15.0 parts by weight of additives, G) 0.05 - 5.0 parts by weight of anti-dripping agent, wherein all specifications of parts by weight are preferably normalized in such a way that the sum of the parts by weight of all components A+B+C+D+E+F+G in the composition is 100 and at least 50% of the phosphorus amount of the total composition comes from component C. The invention further relates to the use of the compositions to produce molded bodies and the molded bodies produced from the compositions.

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US 2003040643 A1 20030227 - NAKANO SHINJI [JP], et al

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