

Thermoplastic molding materials based on polyesters and styrene copolymers

Abstract

5 Thermoplastic molding compositions, comprising

A) from 10 to 97.5% by weight of at least one thermoplastic polyester A,

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B) from 1 to 97.5% by weight of at least one graft polymer B composed of

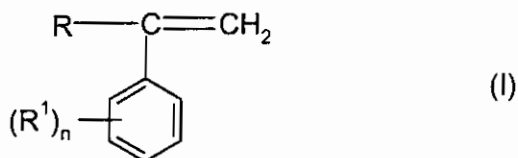
b1) from 40 to 80% by weight of a graft base composed of an elastomeric polymer B1 based on alkyl acrylates having from 1 to 8 carbon atoms in the alkyl radical, on ethylene/propylene, on dienes, or on siloxanes, and with a glass transition temperature below 0°C,

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b2) from 20 to 60% by weight of a graft B2 composed of

b21) from 60 to 95% by weight of styrene or of substituted styrenes B21 of the general formula I

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where R is a C₁₋₈-alkyl radical or hydrogen and R¹ is a C₁₋₈-alkyl radical and n is 1, 2, or 3, or a mixture of these, and

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b22) from 5 to 40% by weight of at least one unsaturated nitrile B22,

C) from 1 to 97.5% by weight of at least one thermoplastic copolymer C composed of

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c1) from 60 to 85% by weight of styrene or of substituted styrenes C1 of the general formula I, or a mixture thereof, and

c2) from 15 to 40% by weight of at least one unsaturated nitrile C2,

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D) from 0.5 to 50% by weight of at least one copolymer D, obtainable via reaction of

d1) from 5 to 95% by weight of at least one thermoplastic methacrylate polymer D1 comprising at least one type of functional groups, selected from epoxy, carboxy, hydroxy, anhydride, and oxazoline, with

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- d2) from 5 to 95% by weight of at least one thermoplastic polyester D2,
- E) from 0 to 40% by weight of at least one filler E,
- 5 F) from 0 to 2% by weight of at least one organic acid F,
- G) from 0 to 25% by weight of at least one halogen-free phosphorus compound G,
- 10 H) from 0 to 45% by weight of other additives H,

where the entirety of components A to H always gives 100%.