

Title (en)

THERMOPLASTIC MOLDING COMPOUNDS WITH IMPROVED IMPACT RESISTANCE

Title (de)

THERMOPLASTISCHE FORMMASSEN MIT VERBESSERTER SCHLAGZÄHIGKEIT

Title (fr)

MATIÈRES MOULABLES THERMOPLASTIQUES PRÉSENTANT UNE RÉSISTANCE AUX CHOCS AMÉLIORÉE

Publication

EP 1278788 A1 20030129 (DE)

Application

EP 01938139 A 20010430

Priority

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Abstract (en)

[origin: WO0183574A1] The invention relates to a graft copolymer comprising a1: 10 to 90 wt.-% of a particulate graft base A1 from a particulate emulsion polymer having a glass transition temperature of below 0 DEG C produced from a11: 70 to 100 wt.-% butadiene or at least one C1-8 alkyl ester of acrylic acid or mixtures thereof as the component A11, a12: 0 to 20 wt.-% of at least one polyfunctional cross-linking monomer as the component A12, a13: 0 to 30 wt.-% of further copolymerizable monomers as the component A13, totaling 100 wt.-%, a2: 10 to 90 wt.-% of a graft layer A2 from the monomers, based on A2, a21: 60 to 100 wt.-% of at least one vinyl aromatic monomer, one (meth)acrylic acid ester or mixtures thereof, as the component A21, and a22: 0 to 40 wt.-% of at least one ethylenically unsaturated monomer as the component A22. The inventive graft polymer has an average particle size of from 130 to 500 nm and a polymodal particle size distribution in which in every particle size interval having a width of 50 nm less than 40 wt.-% of the particles are present.

IPC 1-7

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Citation (search report)

See references of WO 0183574A1

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