

Title (en)

IMPACT-RESISTANT COMPOSITIONS BASED ON THERMOPLASTIC METHACRYLIC (CO)POLYMER

Title (de)

SCHLAGFESTE THERMOPLASTISCHE METHACRYLATHARZZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS RESISTANTES AU CHOC A BASE DE (CO)POLYMERES METHACRYLIQUE THERMOPLASTIQUE

Publication

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Application

EP 01904016 A 20010126

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Abstract (en)

[origin: FR2804439A1] The invention concerns thermoplastic impact-resistant compositions comprising (A) a thermoplastic methacrylic polymer or copolymer (P) including for the major part methyl methacrylate units, (B) at least an impact resistance enhancing additive and at least a grafted elastomeric polymer (C) bearing thermoplastic methacrylic (co)polymer groups (P) grafted at least in pendant position on an elastomeric copolymer (C DEG), said elastomeric copolymer (C DEG) being obtained from (i) at least a vinylaromatic monomer (C<1>), (ii) at least a monomer (C<2>) selected among the C1-C15 linear or branched alkyl acrylates, alkoxyalkyl acrylates wherein the alkyl group(s) have 1 to 4 carbon atoms and aralkyl acrylates wherein the alkyl group(s) has/have 1 to 15 carbon atoms and/or at least a diene monomer (C<3>) and (iii) optionally at least an ethylenically unsaturated monomer (C<4>) with pendant initiator function(s), said monomer(s) (C<4>) being necessary in the absence of monomer (C<3>), said grafted elastomeric copolymer (C) being dispersed in the matrix (A) in the form of nodules 10 to 500 nm in size capable of having a droplet, capsule-type single-inclusion and/or salami-type multiple inclusion morphology.

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