

Title (en)

METHOD FOR PRODUCING RUBBER-ELASTIC MICROSUSPENSION (GRAFT) POLYMERS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KAUTSCHUKELASTISCHEN MIKROSUSPENSIONS(PFROPF)POLYMERISATEN

Title (fr)

PROCEDE DE FABRICATION DE POLYMERISATS (GREFFES) EN MICROSUSPENSION AYANT L'ELASTICITE DU CAOUTCHOUC

Publication

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Application

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Priority

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- EP 9900305 W 19990119

Abstract (en)

[origin: DE19802094A1] Production of an elastomeric (graft)polymer micro-suspension comprises dispersion of a mixture comprising ethylenically unsaturated monomers, crosslinking monomers and aliphatic hydrocarbon polymer; polymerisation of the droplets using a radical polymerisation initiator; and optionally graft polymerisation of the resulting mixture in the presence of ethylenically unsaturated monomers. Production of an elastomeric (graft)polymer micro-suspension (A) comprises (a) dispersion of a mixture comprising (A11) 30-99.9 wt.% ethylenically unsaturated monomers, (A12) 0-20 wt.% crosslinking monomers and (A13) 0.1-50 wt.% aliphatic hydrocarbon polymer having a Tg of less than 0degreesC, (b) polymerisation of the droplets using a radical polymerisation initiator, and optionally (c) graft polymerisation of the resulting mixture in the presence of ethylenically unsaturated monomers. Independent claims are included for (i) the elastomeric (graft) polymer micro-suspension (A); (ii) a molding composition comprising (A) 1-85 wt.% graft polymer, (B)15-99 wt.% of a polymer matrix consisting of polymers of styrene, alpha -methylstyrene, acrylonitrile, methacrylonitrile and/or (meth)acrylic acid ester, (C) 0-50 wt.% fibrous and/or particulate fillers, and (D) 0-40 wt.% other additives; and (iii) fibers, film or molded articles prepared from the molding composition.

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