

Title (en)

MICROSUSPENSION POLYMER CONTAINING ACID GROUPS

Title (de)

SÄUREGRUPPEN ENTHALTENDES MIKROSUSPENSIONSPOLYMERISAT

Title (fr)

POLYMERES OBTENU PAR MICROSUSPENSION RENFERMANT DES GROUPES ACIDE

Publication

EP 1045864 A1 20001025 (DE)

Application

EP 99908813 A 19990121

Priority

- DE 19802120 A 19980121
- EP 9900394 W 19990121

Abstract (en)

[origin: DE19802120A1] A microsuspension polymer (A') having an average particle diameter of 0.08-100 microns comprises (A11) 0.05-20 wt. % of an ethylenically unsaturated monomer having free acidic groups (A12) 80-99.95 wt.% of copolymerizable monomers, whose homopolymer is free of basic groups and (A13) 0-10 wt.% crosslinking monomers. Independent claims are included for: (1) a graft polymer micro-suspension (A) comprising (A1) 20-99.95 wt.% of a graft core having an average particle diameter of 0.08-100 microns and (A2) 0.05-80 wt.% of a graft sheath whereby both (A1) and (A2) are free of basic groups and (A1) and/or (A2) is formed at least partially of ethylenically unsaturated monomers having free acidic groups. (2) a process for the production of (A') or (A) by dispersion of (A') or the corresponding monomers of (A1) in water in the presence of a protective colloid to form a dispersion having an average particle diameter of 0.08-100 microns, polymerisation of the droplets with a radical polymerisation initiator to a conversion of greater than 50% and optionally graft polymerisation of the resulting mixture with monomers of (A2). (3) a molding composition comprising 1-85 wt.% graft polymer (A), 15-99 wt.% (B) - a polymer matrix consisting of polymers of styrene, alpha - methylstyrene, acrylonitrile, methacrylonitrile and/or (meth)acrylic acid ester, 0-50 wt.% (C) - fibrous and/or particulate fillers and 0-40 wt.% (D) - other additives; and (4) fibers, film or molded articles prepared from the molding composition.

IPC 1-7

C08F 2/18; **C08F 220/18**; **C08F 291/02**; **C08F 265/04**

IPC 8 full level

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CPC (source: EP)

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