

Title (en)
METHOD FOR PRODUCING GRAFT POLYMERS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON PFROPFPOLYMERISATEN

Title (fr)
PROCEDE DE PRODUCTION DE POLYMERES GREFFES

Publication
EP 1034201 A1 20000913 (DE)

Application
EP 98961146 A 19981106

Priority
• DE 19752394 A 19971119
• EP 9807097 W 19981106

Abstract (en)
[origin: DE19752394A1] Graft copolymers are obtained by an aqueous- phase process in which polymerization of the rubber-elastic base is taken to completion and an N-oxyl radical compound of a sec. amine with no hydrogens on the alpha -carbon atom is added before and/or during polymerization of the grafted shell. A process for the production, in the aqueous phase, of graft copolymers (A) of (a1) 30-95 wt% rubber-elastic graft base derived from (a11) 50-100 wt% conjugated diene and (a12) 0-50 wt% other monounsaturated monomer(s) or from (a11 asterisk) 50-100 wt% 1-10C alkyl acrylate, (a12 asterisk) 0-10 wt% polyfunctional crosslinking monomer and (a13 asterisk) 0-40 wt% other monounsaturated monomer(s) and (a2) 5-70 wt% grafted shell derived from (a21) 50-100 wt% styrene compound of formula (S): R<1>, R<2> = H or 1-8 C alkyl (a22) 0-40 wt% (meth)acrylonitrile and (a23) 0-40 wt% other monounsaturated monomer(s). In this process, polymerization of the base stage (a1) is taken to completion and then at least one N-oxyl radical compound of a sec. amine with no hydrogen atoms on the alpha -carbon atom is added before and/or during polymerization stage (a2). An Independent claim is also included for graft copolymers obtained by this process.

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