

Title (en)

METHOD FOR PRODUCING POLYBUTADIENE LATEX WITH AN OPTIMIZED THERMAL CURRENT PROFILE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYBUTADIEN-LATEX MIT OPTIMIERTEM WÄRMESTROMPROFIL

Title (fr)

PROCEDE DE PRODUCTION DE LATEX DE POLYBUTADIENE PRESENTANT UN PROFIL DE COURANT THERMIQUE OPTIMISE

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Application

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Abstract (en)

[origin: WO0181438A1] The invention relates to a method for producing polybutadiene latex, according to which butadiene is polymerized in a radical emulsion polymerization in the presence of initiators and optionally dispersants and additional conventional auxiliary agents. Said polymerization is carried out in the presence of reactive comonomers, in such a way that a thermal current of 43 watts/kg solid content is not exceeded. The presence of reactive comonomers increases the reaction speed at the beginning of said reaction, thus achieving a flatter thermal current profile overall. The preferred reactive comonomer is styrol. The method is preferably carried out in the following semi-batch manner: (a) in a first step, a partial quantity of butadiene and at least one partial quantity of a reactive comonomer is prepared in the form of an aqueous solution with a thermally disintegrating initiator and optionally dispersants and additional conventional auxiliary agents and the polymerization is initiated, (b) in a second step, the residual quantity of butadiene and optionally the residual quantity of the reactive comonomer are added as an influent, undiluted or in aqueous solution, optionally with dispersants and optionally with additional conventional auxiliary agents.

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