

Title (en)

METHOD FOR PRODUCING POLYMETHACRYLATE PARTICLES BY EMULSION POLYMERIZATION

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYMETHACRYLATEILCHEN DURCH EMULSIONSPOLYMERISATION

Title (fr)

PROCEDE DE PRODUCTION DE PARTICULES DE POLYMETHACRYLATE PAR POLYMERISATION PAR EMULSION

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Application

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Abstract (en)

[origin: DE19738652A1] The invention relates to a method for producing plastic particles with a size ranging from 2 to 30 μm by emulsion polymerization in a mixture consisting of: a) 10-60 wt. % vinyl polymerizable monomers, wherein the proportion of water-insoluble monomers must be at least 80 wt. % in relation to the (a) monomers used; b) 90-33 wt. % of a solvent mixture, consisting of at least 90 wt. % H_2O ; c) 0.01-2 wt. % of a polymerization initiation agent with a water solubility of at least 1 %; d) 0.05 to 5 wt. % emulgator. The invention is characterized in that a graft copolymer is used as emulgator, which consists of at least 90 wt. % water-insoluble and water-soluble (meth)acrylate monomers, wherein the methacrylate monomers and the acrylate monomers must be present in a minimal proportion of 20 wt. % and the proportion of the water-soluble (meth)acrylate monomers ranges from 5 to 80 wt. %.

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