

ABSTRACT

The invention relates to processes for preparing protective colloid-stabilized polymers based on ethylenically unsaturated monomers in the form of powders redispersible in water (polymer powders), by drying aqueous dispersions of protective colloid-stabilized polymers based on ethylenically unsaturated monomers (polymer dispersions) in the presence of one or more drying aids, characterized in that the drying aids comprise a) one or more inorganic salts selected from the group of the alkali metal sulfates and alkali metal sulfites and b) optionally one or more water-soluble organic polymers and the inorganic salts a) are in dissolved form in the polymer dispersions after addition of all the drying aids, wherein the inorganic salts a) are used as drying aids to an extent of $\geq 25\%$ by weight, based on the total weight of the drying aids, and wherein the proportion of any water-soluble organic polymers b) used as drying aids is $\leq 40\%$ by weight, based on the total weight of protective colloids and any water-soluble organic polymers b) used as drying aids.