

Title (en)
STARCH HYBRID COPOLYMERS

Title (de)
STÄRKE-HYBRIDCOPOLYMERE

Title (fr)
COPOLYMÈRES HYBRIDES D'AMIDON

Publication
EP 4323416 A1 20240221 (DE)

Application
EP 21720410 A 20210416

Priority
EP 2021059882 W 20210416

Abstract (en)
[origin: WO2022218539A1] The invention relates to starch hybrid copolymers in the form of aqueous dispersions or powders which can be redispersed in water. The starch hybrid copolymers can be obtained by means of a radically initiated polymerization in an aqueous medium of ethylenically unsaturated monomers in the presence of starch and if necessary a subsequent drying process. The invention is characterized in that ≥ 20 of the starch hybrid copolymers, based on the dry weight of the starch hybrid copolymers, is based on cold water-soluble starches, and the ethylenically unsaturated monomers comprise either a) one or more vinyl esters, 1 to 40 wt.% of ethylene, 0.1 to 10 wt.% of one or more functional monomers, and optionally one or more additional ethylenically unsaturated monomers or b) styrene, ≥ 30 wt.% of one or more (meth)acrylic acid esters, 0.1 to 10 wt.% of one or more functional monomers, and optionally one or more additional ethylenically unsaturated monomers, wherein the functional monomers are ethylenically unsaturated and have one or more epoxy, silane, and/or N-methylol groups, and the specified weight by percentage of the monomers is based on the total weight of the monomers.

IPC 8 full level
C08F 251/00 (2006.01)

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