

Title (en)
PULLULAN FILMS AND THEIR USE IN EDIBLE PACKAGING

Title (de)
PULLULANFILME UND IHRE VERWENDUNG BEI ESSBAREN VERPACKUNGEN

Title (fr)
FILMS DE PULLULANE ET LEUR UTILISATION DANS L'EMBALLAGE COMESTIBLE

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Application
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Abstract (en)

[origin: WO2007149276A2] An edible article comprises a food product and a film that encloses the food product. In one embodiment, the film comprises a major amount of pullulan on a dry solids basis, and a minor amount of at least two of glycerol, propylene glycol, sorbitol, and polyethylene glycol. In another embodiment, the film comprises a major amount of pullulan on a dry solids basis, gelatin, and at least two of glycerol, propylene glycol, sorbitol, and polyethylene glycol, and can also comprise salt. In another embodiment, the film comprises a first layer comprising a major amount of at least one food grade wax, a second layer comprising a major amount of pullulan and further comprising at least one plasticizer, and a third layer comprising at least one surfactant that is substantially immiscible with aqueous pullulan compositions but which adheres to pullulan surfaces, wherein the at least one surfactant is at least partially crystalline. In another embodiment, the film comprises a major amount of pullulan on a dry solids basis, at least one salt (and in some cases at least two salts), and at least one plasticizer. In another embodiment, the film comprises an edible film adhered to a peelable, flexible substrate, wherein the edible film comprises a major amount of pullulan on a dry solids basis and at least one plasticizer. The edible article can be manufactured by preparing a film-forming composition as described above, forming the film-forming composition into a film, and enclosing a food product with the film.

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