

Title (en)

Nonwoven fabric with an acrylate interpolymers binder and a process of making the nonwoven fabric.

Title (de)

Vliesstoff mit Akrylatinterpolymer-Bindemittel und Verfahren zur Herstellung desselben.

Title (fr)

Etoffe non tissée avec un interpolymère d'acrylate comme liant, et procédé pour la fabriquer.

Publication

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Application

EP 87115223 A 19871017

Priority

US 92116586 A 19861020

Abstract (en)

Fibers treated with a novel latex containing a polymeric material of the present invention have an exceptional balance of physical properties. The novel latex is prepared by polymerizing an unsaturated dicarboxylic acid contained 4 to 10 carbon atoms with a copolymerizable monomer(s) and, optionally, a crosslinking monomer in the presence of an effective amount of a surfactant and initiator. In an preferred embodiment of the process, all of the unsaturated dicarboxylic acid is initially placed in the reactor, and a premix containing the copolymerizable monomer(s) and the crosslinking monomer is metered into the reactor. The unsaturated dicarboxylic acid is used an amount from about 1 to about 20 weight parts, the amount of the copolymerizable monomer is from about 70 to 98 weight parts, and the amount of the crosslinking monomer, which is optional is from about 0.52 to about 10 weight parts. The novel polymers have a Tg from about -20 DEG C to about -60 DEG C, a percent hysteresis loss of less than about 20% and exhibit a tensile strength of at least 300 psi and an elongation of at least 350%. When the novel latex is applied to the fibers, a nonwoven fabric having unique balance of properties is created.

IPC 1-7

D04H 1/64

IPC 8 full level

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Citation (applicant)

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