

Title (en)
COPOLYMERS OF ACRYLOYLOXYALKYLAMINO COMPOUNDS

Title (de)
COPOLYMERE VON ACRYLOYLOXYALKYLAMINOVERBINDUNGEN

Title (fr)
COPOLYMERES DE COMPOSES ACRYLOYLOXYALKYLAMINO

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Abstract (en)
[origin: WO0116193A1] The invention relates to antimicrobial polymers which are produced by copolymerising a monomer of formula (I) wherein R<1>= -H or -CH₃, R<2>= a branched or unbranched aliphatic hydrocarbon radical with 1 to 5 carbon atoms, Y = NR<3>R<4>, N<+>R<3>R<4>R<5>X<->, R<3>, R<4>, R<5> = a substituted or unsubstituted, branched or unbranched aliphatic or aromatic hydrocarbon radical with 1 to 50 carbon atoms, R<3>, R<4> and R<5> being the same or different, and X<->= CH₃SO<->4, NO<->3, F<->, Cl<->, Br<->, I<->, CH₃CH₂<->, NO₂<->, NO<->, CN<->, SCN<->, CNO<->, ClO<->, ClO₂<->, ClO₃<->, ClO₄<->; with other aliphatically unsaturated monomers. The invention also relates to a method for producing said polymers. The monomers of formula (I) can be especially, benzophenone derivatives. The polymers can also be produced by graft copolymerisation of a substrate, whereby a covalently bonded coating is obtained on the substrate surface. The inventive antimicrobial polymers can be used as a microbicide coating on e.g., hygiene items or in the area of medicine, and in paints or protective coatings.

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