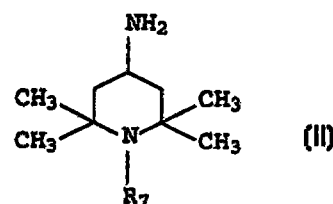
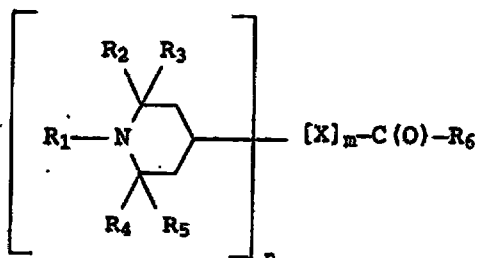




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(54) Title: INHERENTLY LIGHT- AND HEAT-STABILIZED POLYAMIDE AND METHOD OF MAKING THE SAME



(57) Abstract

An inherently light- and heat-stabilized polyamide is prepared by polymerizing polyamide forming monomers in the presence of (a) an effective amount of at least one 4-carboxy-2,2,6,6-tetramethylpiperidine compound represented by formula (I); wherein R_1 is hydrogen, benzyl, or a C_1 - C_{20} alkyl; R_2 - R_5 are each hydrogen or the same or a different C_1 - C_6 alkyl; X has n free valance bonding sites and is an alkyl or substituted alkyl having from about 1 to about 30 carbon atoms or an aryl or substituted aryl having from about 6 to about 20 carbon atoms; m is 0 or 1; $-C(O)-R_6$ is a group that can form an amide bond together with an amine, and n is equal to 1, 2 or 3 and (b) an effective amount of at least one 4-amino-2,2,6,6-tetramethylpiperidine compound represented by formula (II); wherein R_7 is hydrogen, benzyl, or a C_1 - C_{20} alkyl. The inherently light- and heat-stabilized polyamide comprises at least one radical of the at least one piperidine compound of formula (I) chemically bonded to the backbone polymer chain and at least one radical of the at least one 4-amino-2,2,6,6-tetramethylpiperidine compound of formula (II) chemically bonded to the backbone polymer chain. The inherently light- and heat-stabilized polyamide may be used to form articles such as, for example, fibers, carpets, yarns, and textile fabrics.