

Title (en)
SILICONE COMPOUNDS HAVING STERICALLY HINDERED CYCLIC AMINE FUNCTIONS AND COMPATIBILISING FUNCTIONS, AND USE THEREOF FOR LIGHT AND HEAT STABILISATION OF POLYMERS

Title (de)
SILIKONVERBINDUNGEN, DIE STERISCH GEHINDERTE ZYKLISCHE AMINOGRUPPEN UND KOMPATIBILISIERENDE GRUPPEN ENTHALTEN, UND DEREN ANWENDUNG ZUR LICHT- UND HITZESTABILISIERUNG VON POLYMEREN

Title (fr)
COMPOSES SILICONES A FONCTIONS AMINES CYCLIQUES STERIQUEMENT ENCOMBRES ET A FONCTIONS COMPATIBILISANTES ET LEUR UTILISATION DANS LA STABILISATION LUMIERE ET THERMIQUE DES POLYMERES

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Abstract (en)
[origin: WO9616110A1] Mixed polyorganosiloxanes having, per molecule, (i) at least one functional siloxyl unit (I): $(R<1>)aXSi(O)(3-a)/2$, wherein $R<1>$ is a C1-4 alkyl radical or phenyl, X contains a secondary or tertiary cyclic amine function bound to the silicon via a -Si-A-C bond, where A is a hydrogen atom or a radical -CH₂-CHR<2>-COO- ($R<2>$ being a hydrogen atom or a C1-3 alkyl radical), and a is 0, 1 or 2; (2i) at least one other functional unit (II): $(R<1>)bWSi(O)(3-b)/2$, wherein W is a compatibilising function, particularly an alkyl radical having more than 10 carbon atoms, and b is 0, 1 or 2; and optionally (3i) at least one other unit (III): $(R<1>)d(H)iSi(O)(4-(d+e))/2$, wherein d is 0, 1, 2 or 3, e is 0 or 1, and the sum of d + e is no greater than 3. The use of such polyorganosiloxanes in polymers, in particular for improving the light-stability thereof, is also disclosed.

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