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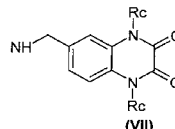
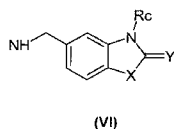
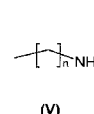
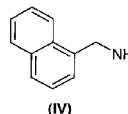
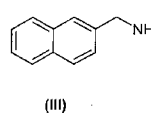
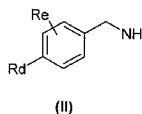
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(54) Title: OXYGEN BARRIER PLASTIC MATERIAL



(57) Abstract: The invention relates to use of an additive as oxygen barrier in a plastic material wherein (a) the plastic material is a polyolefin, a polyolefin copolymer or a polystyrene, and the additive is (b) and optionally (c): (b) a compound of formula (I); wherein Ra represents C₇-C₂₀ alkyl, C₆-C₁₀ aryl, C₄-C₁₀ heteroaryl, wherein the heteroatoms are N, O and/or S, (C₂-C₆)-alkenylen-(C₆-C₁₀) aryl, C₁-C₆-alkylen-C₆-C₁₀-aryl, the aryl and heteroaryl radicals optionally being substituted by: hydroxyl, C₁-C₆-alkyl, C₁-C₆ alkoxyl, C₆-C₁₀ aryloxy, halogen, cyano, nitro, C₆-C₁₀-aryl, di(C₁-C₆)alkylamino, (C₁-C₆)alkylthio, C₆-C₁₀-arylthio, =O, =S, SO₃H, SO₂NR¹R², CO₂R³, CONR¹R², NHCOR⁴, CO-C₆-C₁₀-aryl or a combination thereof, wherein R¹, R², R³, R⁴ are the same or different and independently represent hydrogen or C₁-C₆-alkyl; Rb represents a group selected from the moieties of formula (II), (III), (IV), (V), (VI) and (VII); wherein each Rc can be the same or different and independently represents hydrogen, C₁-C₂₀ alkyl or C₆-C₁₀-aryl, (C₂-C₄) alkenylen (C₆-C₁₀) aryl, C₁-C₄-alkylen-C₆-C₁₀-aryl, the aryl radicals optionally being substituted by hydroxyl, C₁-C₄-alkyl, C₁-C₄ alkoxyl, C₆-C₁₀ aryloxy, Cl, cyano, C₆-C₁₀-aryl, or CO-C₆-C₁₀-aryl; Rd represents hydrogen, C₁₋₃₀ alkyl, C₆-C₁₀-aryl or halogen; Re represents hydrogen, C₁₋₃₀ alkyl, C₆-C₁₀-aryl or a halogen and can be on ortho (o) or meta (m) position to Rd; X can be O or N-Rf where Rf represents hydrogen, C₁-C₂₀ alkyl or phenyl; Y can be O or S; n is a number from 1 to 30; (c) a transition metal catalyst.



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