

Title (en)
IMPROVED HIGH MOLECULAR WEIGHT DISPERSANT ADDITIVES

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Application
EP 90305566 A 19900522

Priority
US 35872189 A 19890530

Abstract (en)
[origin: EP0400869A2] The present invention is directed to improved oil soluble dispersant materials which comprise members selected from the group consisting of oil soluble salts, amides, imides, oxazolines, or mixtures thereof, of polyolefin-substituted mono and dicarboxylic acids or their anhydrides covered as per claim 1 wherein the polyolefin is characterized by number average molecular weight of from about 1,500 to 2,500 and a molecular weight distribution of less than about 3.0, and wherein the dispersant additive contains within its structure an average of from 0.7 to 1.3 mono- or dicarboxylic acid producing moieties (preferably acid or anhydride moieties) covered as per claim 1 per polyolefin molecule, and wherein the dispersant material contains from 0.5 to 4 equivalents of secondary amine groups per equivalent of the mono- or dicarboxylic acid producing moieties per molecule, with the proviso that the dispersant material is further characterized by a Z factor of from 4,000 to 6,000, wherein the Z factor is determined by the expression: $Z = \frac{Mn}{[N]}$ wherein [N] is the total nitrogen content of the dispersant material expressed in wt% and Mn is the polyolefin number average molecular weight.

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Citation (search report)

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