

WATER BORNE POLYOLEFIN DISPERSION COATINGS, AND METHODS OF MAKING

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ABSTRACT

10 The present invention provides aqueous polyolefin dispersion compositions for use in metal coatings, such as can coatings, comprising one or more polyolefin base polymer, one or more at least partially neutralized olefinic stabilizing agent having an acid number (AN) of from 80 to 250, preferably, a polyolefin stabilizing agent, such as an olefin-carboxylic acid copolymer or a blend of two such polymers, an optional coupling agent having an acid number (AN) of from 10 to 70 and a melt index of from 500 to 5,000,000 grams of polymer melt passing in 10 minutes through a heated syringe or cylinder at 190 °C with a plunger loaded with 2.16 kg, preferably, a polymer, and a hindered phenolic antioxidant containing an ester linkage dispersed in the polyolefin dispersion composition. The hindered phenolic antioxidant containing an ester linkage can be masterbatched with a polyolefin base polymer, polyolefin stabilizing agent or a coupling agent which is a polymer, melt mixed with the remaining polyolefin composition and then dispersed with aqueous media and a neutralizing agent to form the aqueous dispersion.

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Fig: None