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# (54) Dispersion of a preformed polymer in a polyol

(57) A process for making a stable dispersion comprising the steps: (a) contacting, in a single mixer, a preformed polymer resin, a polyether polyol, and if necessary or desired, a stabilizer under conditions of sufficient heat to melt the preformed polymer, thereby forming a polymer melt, and sufficient shear to form an initial dispersion of the polymer resin in the polyol; and (b) while under shear, cooling the initial dispersion sufficiently to form a stable dispersion; wherein the preformed polymer resin is a polyethylene polymer, the process being characterized by the polyether polyol having a weight-averaged molecular weight of between 500 and 8000, a functionality of from 2 to 8, and a hydroxyl number of 70 to 5.61 and the dispersion comprising a stabilizer that is an imide reaction product of a maleic anhydride functionalized polyethylene wax and a monoamine polyol.

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