WHAT IS CLAIMED IS:

1) A method for increasing the melt strength of a polyethylene resin comprising the steps of:

a) selecting a first polyethylene resin selected from the group consisting of LLDPE, HDPE, LDPE and blends thereof, wherein said first polyethylene resin has a density, as determined according to ASTM D792, in the range of from 0.900 g/cm^3 to 0.970 g/cm^3, and a melt index, as determined according to ASTM D1238 (2.16 kg, 190°C), in the range of from 0.01 g/10min to 30 g/10 min, and wherein said first polyethylene resin has less than 2000 ppm antioxidant;

b) reacting said first polyethylene resin with a free radical generator with a decomposition energy in the range of from -50 kJoules/mole to -250 kJoules/mole, with a peak decomposition temperature of no less than 150 degree C and not more than 280 degree C, wherein the free radical generator is in a carrier resin selected from the group consisting of LDPE, HDPE and blends thereof, wherein the carrier resin comprises less than 1,000 ppm antioxidant and wherein the free radical generator is in an amount in the range of from 30 to 200 ppm and added under conditions sufficient to increase the melt strength of the polyethylene resin by at least 20% over and above a control not reacted with said free radical generators.

2) The method of Claim 1 wherein free radical generator is an alkoxy amine derivative corresponds to the formula:

$(R_1)(R_2)N\text{-}O\text{-}R_3$

where R_1 and R_2 are each independently of one another, hydrogen, C_4-C_{42} alkyl or C_4-C_{42} aryl or substituted hydrocarbon groups comprising O and/or N, and where R_1 and R_2 may form a ring structure together; and $R_3$is hydrogen, a hydrocarbon or a substituted hydrocarbon group comprising O and/or N.

3) The method of claim 1 wherein the alkoxy amine derivative is a hydroxylamine ester.

4) The method of claim 3 wherein the hydroxyl amine ester is hydroxyl amine ester being 9-(acetyloxy)-3,8,10-triethyl-7,8,10-trimethyl-1,5-dioxa-9-azaspiro[5.5]undec-3-yl]methyl octadecanoate.

5) A blend comprising:

a) less than 100 percent by weight of a polyethylene polymer which has been formed by first selecting a first polyethylene resin selected from the group consisting of LLDPE, HDPE, LDPE and blends thereof, wherein said first polyethylene resin has a density, as determined according to ASTM D792, in the range of from 0.900 g/cm^3 to 0.970 g/cm^3, and a melt index, as determined according to ASTM D1238 (2.16 kg, 190°C), in the range of from 0.01 g/10min to 30 g/10 min; and then reacting said first polyethylene resin with a free radical generator with a decomposition energy in the range of from -50 kJoules/mole to -250 kJoules/mole, with a peak decomposition temperature of no less than 150 degree C and not more than 280 degree C, wherein the free radical generator is in a carrier resin selected from the group consisting of LDPE, HDPE and blends thereof, wherein the carrier resin comprises less than 1,000 ppm antioxidant and wherein the free radical generator is in an amount in the range of from 30 to 200 ppm and added under conditions sufficient to increase the melt strength of the polyethylene resin by at least 20% over and above a control not reacted with said free radical generators; wherein the unmodified first polyethylene resin is further characterized by having less than 1,000 ppm antioxidant and

b) another polyethylene resin selected from the group consisting of LLDPE, HDPE, LDPE and blends thereof.

6) The blend of claim 5, wherein said modified first polyethylene has a density in the range of from 0.900 to 0.970 g/cm^3.

7) The blend of claim 5, wherein said modified first polyethylene has a melt index in the range of 0.01 to 30 g/10 minutes.

8) The blend of claim 5, wherein said modified first polyethylene has a molecular weight distribution, M_w/M_n, of less than about 5.

9) The blend of claim 5 formed into a film.

10) The blend of claim 5 formed into a molded article.

11) The blend of claim 5 formed into an extruded article.

12) The blend of claim 5, wherein the melt flow ratio of I_{10}/I_2 of the said modified first polyethylene is greater than 9.

13) The blend of claim 5, wherein [Viscosity at 0.1 rad/s]/ [Viscosity at 100 rad/s] of the said modified first polyethylene measured at 190 °C is greater than 8.

14) The blend of claim 5, wherein tan delta at 0.1 rad/s of the said modified first polyethylene measured at 190 °C is less than 4.

15) The blend of claim 5, wherein melt strength of the said modified first polyethylene measured at 190 °C is greater than 5.

16) The blend of claim 5, wherein the gpcBR of the said modified first polyethylene is greater than 0.03.