We claim:

1. An ethylene/α-olefin copolymer comprising:

units derived from ethylene; and

units derived from at least one α-olefin;

wherein the ethylene/α-olefin copolymer has a density in the range of from 0.90 to 0.94 g/cc; a melt index (I_2) in the range of from 0.05 to 50 dg/min; an Mw/Mn of from 3 to 5; and from 300 to 500 vinyl unsaturations per 1,000,000 carbon atoms in the ethylene/α-olefin copolymer, and wherein the ethylene/α-olefin copolymer is produced using a polymerization step occurring at a temperature of at least 205 °C.

2. A process for producing an ethylene/ α-olefin copolymer comprising the steps of: (1) polymerizing ethylene and one or more α-olefins in a polymerization reactor wherein the ethylene/α-olefin copolymer is produced using a polymerization step occurring at a temperature of at least 205 °C; (2) thereby producing an enhanced melt strength ethylene/α-olefin copolymer having from 300 to 500 vinyl unsaturation units per 1,000,000 carbon atoms, a density in the range of from 0.90 to 0.94 g/cc; a melt index (I_2) in the range of from 0.05 to 50 dg/min; and a Mw/Mn of from 3 to 5.

~~3. The process according to Claim 2, wherein the polymerization step occurs in the presence of hydrogen from 0.01 to 0.04 mole percent.~~

34. The process according to any one of Claims 2-~~3~~, wherein the polymerization step occurs in the presence of hydrogen from 0.015 to 0.03 mole percent.

~~5. The process according to any one of Claim 2-4, wherein the polymerization step occurs at a temperature from 205 to 240 °C.~~

~~4~~6. The process according to any one of Claims 2-~~5~~3, wherein the polymerizing step occurs at a temperature from 205 to 215 °C.

5~~7~~. The process according to any one of Claims 2-~~6~~4, wherein the polymerizing step occurs in a single stage solution reactor.

6~~8~~. The process according to any one of Claims 2-~~7~~5, further comprising adding a primary antioxidant to a product stream produced in the polymerizing step postreactor.

~~9. The process according to any one of Claims 2-8, further comprising adding a secondary antioxidant to the product stream produced in the polymerizing step postreactor.~~

~~10. The process according to Claim 9, wherein the secondary antioxidant is a phosphite.~~

~~11~~7. ~~Any one of the preceding Claims, wherein the~~ The ethylene/α-olefin copolymer according to claim 1 ~~has~~ having a melt strength of at least 3.0 cN.

~~12~~8. A blend comprising the ~~enhanced melt strength~~ ethylene/α-olefin copolymer according to claim 1~~any one of the preceding Claims~~ and a second polymer selected from the group consisting of synthetic and natural polymers.

~~13~~9. The blend according to Claim ~~12~~8 wherein the second polymer is LDPE.

~~14~~10. A film comprising the ~~enhanced melt strength~~ ethylene/α-olefin copolymer according to claim 1~~any one of the preceding Claims~~.

~~15. A film comprising the blend according to any one of Claims 12-13.~~

~~16. Any one of the preceding Claims, wherein the ethylene/α-olefin copolymer has from 330 to 400 vinyl unsaturation units per 1,000,000 carbon atoms.~~

~~17. Any one of the preceding Claims, wherein the enhanced melt strength ethylene/α-olefin copolymers has a density of at least 0.915 g/cc.~~

~~18. Any one of the preceding Claims, wherein the one or more α-olefins are selected from the group consisting of C_3 to C_{20} α-olefins.~~