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(54) Title: PROCESS TO PRODUCE ENHANCED MELT STRENGTH ETHYLENE/ALPHA-OLEFIN COPOLYMERS AND ARTICLES THEREOF

(57) Abstract: An ethylene/a-olefin copolymer comprising units derived from ethylene; and units derived from at least one α -olefin; wherein the ethylene/a-olefin copolymer has a density in the range of from 0.90 to 0.94 g/cc; a melt index (I2) 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/a-olefin copolymer is provided. Also provided is a process for producing an ethylene/ α -olefin copolymer comprising: (1) polymerizing ethylene and one or more α -olefins in a polymerization reactor; (2) thereby producing an enhanced melt strength ethylene/a-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 (I2) in the range of from 0.05 to 50 dg/min; and a Mw/Mn of from 3 to 5.

