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(54) Title: BIMODAL LINEAR LOW DENSITY POLYETHYLENE COPOLYMER

(57) Abstract: Provided are bimodal linear low density polyethylene copolymers (B-LLDPE copolymers) that have a combination of improved properties comprising at least one processability characteristic similar or better than that of an unblended monomodal ZN-LLDPE and a dart impact property similar or better than that of an unblended monomodal MCN-LLDPE. For the various aspects, the B-LLDPE copolymer has a density from 0.8900 to 0.9300 g/cm³; a melt index (I₂) from 0.1 g/10 min. to 5 g/10 min.; a M_z from 600,000 to 1,200,000 g/mol; and a hexane extractables content present in a value of up to 2.6 wt.% as measured according to ASTM D-5227:95. The B-LLDPE copolymer can be further characterized by a first melt flow ratio (I₂₁/I₂) from 25 to 65 and a first molecular weight ratio (M_z/M_w) from 3.5 to 5.5.



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