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(54) Title: BIMODAL POLYETHYLENE COPOLYMER COMPOSITION AND PIPE MADE THEREOF

(57) Abstract: A bimodal ethylene-co-1-hexene copolymer composition consisting of a higher molecular weight component and a lower molecular weight component and, when in melted form at 190 degrees Celsius, is characterized by a melt property performance defined by a combination of melt index (5 kg), melt strength, and, optionally, shear thinning properties, and, when in solid form, is characterized by a slow crack growth property performance defined by a combination of strain hardening modulus and accelerated full-notch creep test performance. A pipe consisting of the bimodal ethylene-co-1-hexene copolymer composition. A method of synthesizing the bimodal ethylene-co-1-hexene copolymer composition. A method of making the pipe. A manufactured article, which is not a pipe, comprising the bimodal ethylene-co-1-hexene copolymer composition.



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