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(54) Title: POLYETHYLENE PROCESS

(57) Abstract: An ethylene polymerization process is disclosed. Ethylene is polymerized in two slurry reaction zones with a C₂H₄/191-C₁₀H₁₈ alpha-olefin in the presence of a single-site catalyst capable of making a high molecular weight polyolefin. The process yields medium density and linear low density polyethylene having a bimodal molecular weight distribution and a melt index from about 0.10 to about 0.80. Films from the polyethylene have superior impact properties.

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