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(54) Title: PROCESS FOR PRODUCING BRANCHED POLYOLEFIN

(57) Abstract: The present disclosure provides a process. In an embodiment, that process includes contacting, under polymerization conditions at a temperature from 160°C to 250°C, a single polymerization catalyst and a cocatalyst in a single reactor with (i) an ethylene monomer and an optional C₃-C₈ α-olefin in comonomer, (ii) an alkyl-aluminum chain transfer agent, and (iii) an alkyl-zinc chain transfer agent. The process includes forming an ethylene-based polymer having an I₁₀/I₂ value greater than 8.0 and a vinyl content of greater than 50/1,000,000C.

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