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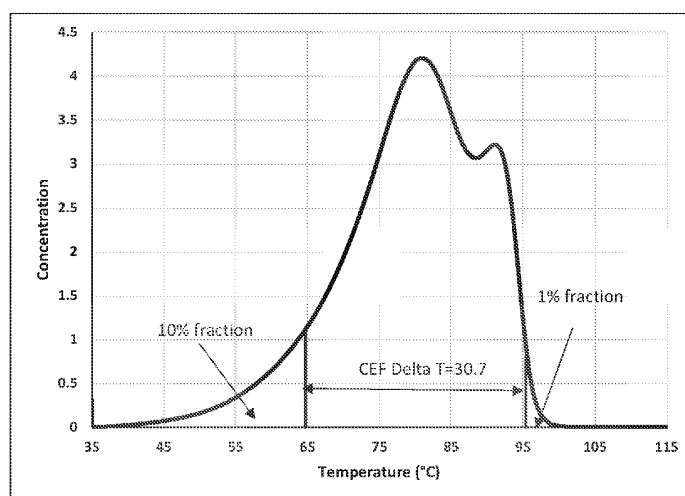


FIG. 1

(57) Abstract: A polyethylene copolymer comprising ethylene units and C4 to C8 α -olefin comonomer units having the following characteristics: a melt index from about 0.1 to about 15 g/10 min as determined at 190°C by ASTM D1238 under 2.16 kg and at 190°C; a density from 0.905 to 0.930 g/cc; a molecular weight distribution from about 1.5 to about 2.7; a Crystallization Elution Fractionation temperature range excluding the first 10% and the last 1% polymer on the temperature scale following the equation: $\Delta T [^{\circ}\text{C}] \geq -909 * (\text{density [g/cc]} + 863)$; and a lamellar thickness distribution following the equation: $F \% \geq 510 * (\text{density [g/cc]} - 0.905)$, where F % is the percentage of lamellar thickness greater than 12 nm.

[Continued on next page]

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