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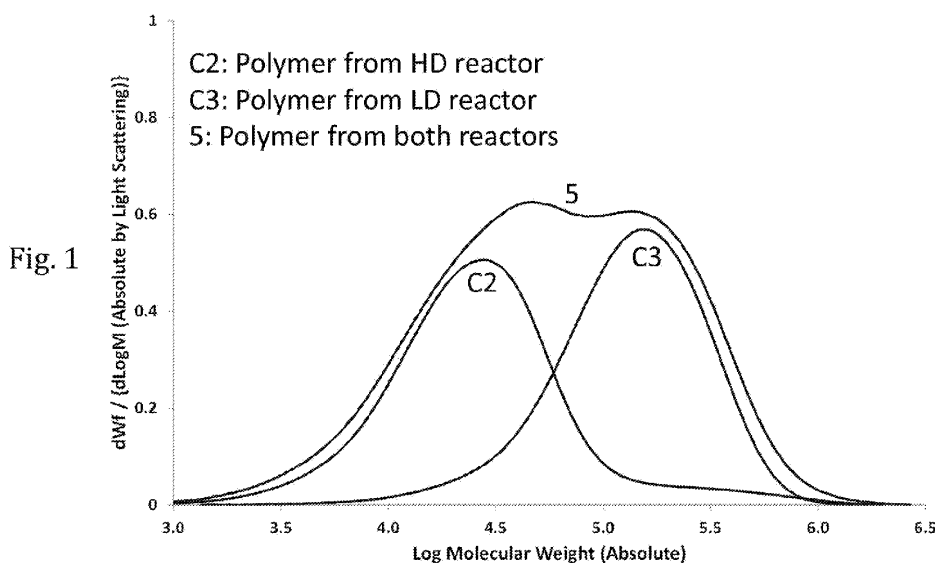


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(54) Title: POLYMER FILMS HAVING SUPERIOR COMBINATION OF PROCESSIBILITY AND ABUSE RESISTANCE



(57) Abstract: Embodiments of the present disclosure are directed to films comprising at least 95 wt.% ethylene-based polymer, wherein: the ethylene-based polymer is the polymerized reaction product of ethylene, C₃-C₁₄ α -olefin monomer, and optionally polyene; and wherein the film comprises a normalized dart strength (DS) in g/mol that is greater than or equal to $400 + 1400 / (MS - 2.7)$, wherein normalized DS is measured in gram (g/mil) according to ASTM 1709 Method A divided by the film thickness in mil, wherein MS is the melt strength of the ethylene-based polymer measured in centiNewtons (cN) (Rheotens device, 190°C, 2.4 mm/s², 120 mm from the die exit to the center of the wheels, extrusion rate of 38.2 s⁻¹, capillary die of 30 mm length, 2 mm diameter and 180° entrance angle), and wherein the MS is at least 4 cN.

[Continued on next page]

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