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(54) **Title:** HIGH PERFORMANCE MOISTURE BARRIER FILMS AT LOWER DENSITIES

(57) **Abstract:** A metallocene-catalyzed polyethylene copolymer having a zero shear viscosity (η_0) of from about 1×10^2 Pa-s to about 5×10^3 Pa-s and a ratio of a z-average molecular weight to a number average molecular weight (M_z/M_n) of from about 4 to about 15, and when tested in accordance with ASTM F1249 displays a moisture vapor transmission rate of less than or equal to about 0.9 g-mil/100 in²/day. A metallocene-catalyzed polyethylene copolymer which when tested in accordance with ASTM F1249 has a moisture vapor transmission rate (MVTR) that is decreased by at least 5% when compared to an MVTR determined in accordance with ASTM F1249 of an otherwise similar metallocene-catalyzed polyethylene homopolymer.

