

Abstract

The present invention relates to a polyethylene composition, the composition comprising:

(a) a first ethylene homo- or co- polymer component (A) having a weight average molecular weight (Mw) of 15,000 to 90,000 g/mol; and

(b) a second ethylene homo- or co- polymer component (B) having a weight-average molecular weight (Mw) of 300,000 to 1,100,000 g/mol;

wherein the polyethylene composition has a density of from 0.940 to 0.975 g/cm³; MI_{21} of from 1.0 to 70 g/10 min; a tan delta (at angular frequency (ω) of 0.157 rad/s) of from 0.8 to 2.9; and a ratio M_z/M_n of z-average molecular weight (M_z) to number-average molecular weight (M_n) of from 80 to 220. The polyethylene composition of the present invention provides exceptional environmental stress crack resistance (ESCR) and excellent rheology property for smoother processing, with better dimensional control under extrusion conditions, significantly improved mold filling and reduce cycle time for container articles.