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(54) Title: THERMOPLASTIC COMPOSITIONS COMPRISING BIMODAL POLYETHYLENE AND ARTICLES MANUFACTURED THEREFROM

(57) Abstract: In various embodiments, a bimodal polyethylene may include a high molecular weight component and a low molecular weight component. The bimodal polyethylene may have a density of from 0.933 g/cm³ to 0.960 g/cm³, a melt index (I₂) of from 0.3 dg/min to 1.2 dg/min, and a melt flow ratio (MFR₂₁) greater than 70.0. The high molecular weight component may have a density of from 0.917 g/cm³ to 0.929 g/cm³, and a high load melt index (I₂₁) of from 0.85 dg/min to 4.00 dg/min. The bimodal polyethylene may include from 40 wt.% to 60 wt.% of the high molecular weight component. Methods for producing the bimodal polyethylene and articles manufactured from the bimodal polyethylene are also provided.

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