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(54) **Title**: RADICALLY FUNCTIONALIZED OLEFIN-BASED POLYMER WITH REDUCED MOLECULAR WEIGHT CHANGE AND METHOD

(57) **Abstract**: The present disclosure provides a functionalized olefin-based polymer, a process for producing the same, and articles containing the functionalized olefin-based polymer. The functionalized olefin-based polymer includes an olefin-based polymer, and a functional agent grafted to the olefin-based polymer by way of a coagent. The coagent is either a cinnamoyl derivative and/or a cyano-acrylate compound. The presence of the coagent inhibits a change in the molecular weight during radical functionalization of the olefin-based polymer.