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(54) Title: POLYURETHANE BASED MEDICAL ARTICLES



FIG. 1

(57) **Abstract:** Medical articles formed from a polyurethane-based resin including an ionically-charged modifier provide enhanced properties. The polyurethane-based resin is a reaction product of ingredients comprising: a diisocyanate; a diol chain extender; a polyglycol; and an ionically-charged modifier incorporated into a backbone, as a side chain, or both of the polyurethane-based resin. Embodiments include the ionically-charged modifier is a combination of anionic and cationic modifiers. Embodiments include the ionically-charged modifier is zwitterionic. Medical articles herein either have inherent antimicrobial and/or anti-fouling characteristics or can easily bond ionic active agents to provide desirable material properties, including antimicrobial, anti-fouling, and/or radiopacity.



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