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(54) Title: METHOD OF FORMING A GRAFT POLYOL AND POLYURETHANE ARTICLE FORMED FROM THE GRAFT POLYOL

(57) Abstract: A graft polyol is used to form a polyurethane article including the reaction product of the graft polyol and an isocyanate. The graft polyol is formed from a method including the steps of providing a polymerizable monomer, providing a chain transfer agent, providing a carrier polyol, and providing a free radical initiator. The polymerizable monomer includes styrene and acrylonitrile. The chain transfer agent includes from three to nine carbon atoms, at least one thiol moiety, and at least one hydrophilic moiety. The carrier polyol includes a polyetherol and the free radical initiator includes a diimide. The method also includes the step of combining the polymerizable monomer, the chain transfer agent, the carrier polyol, and the free radical initiator including free radicals. The method further includes the step of reacting the polymerizable monomer and the free radicals to polymerize the polymerizable monomer and form the graft polyol.



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