

Grafting of Polyethyleneglycol with Some Monomers

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ABSTRACT

The aim of this research is to grafted of Polyethyleneglycol by using different vinyl monomers which are useful in dentistry because some of the prepared graft co polymers can be shaped and molded and then transformed to a solid, such as Graft Copolymerization of Polyethyleneglycol with Indene (A_1), with dipenten(A_2). With acrylonitrile (A_3), with acrylamide (A_4), with acrylic acid (A_5).

New properties of the substrate of useful derivative as material were extra. Due to their structural diversity and stability, onto backbone of Polymers are formed through chemical reactions that the prepared polymers were characterized by FTIR and H-NMR spectroscopes and thermal analysis were considered.

KEY WORD: Polyethyleneglycol, Acryl amide, Acrylic acid, Dipentin, Indine.

1. INTRODUCTION

Copolymers are obtained by copolymerization of two or more monomers are sometimes termed bipolymers, those obtained from three monomers gave terpolymers, four monomers gave quarter polymers. (Feng, 2011). Examples: Poly (ethylene-co-propylene) (EP) (Pearce & Eli, 1987). Poly (styrene-co-butadiene) (SBR) Poly (vinylidene chloride-co-vinyl chloride) (Saran). Acrylonitrile / Butadiene / Styrene (ABS) (Volker Abetz, 2005). These structurally simple polymers constitute by far the largest share among plastics and flexibility to required applications depending on the nature of their recurring aside from their molecular weight (Hegazy, 1993). But the freedom of design is greatly widened not only by combining structurally different recurring units into a given polymer thread but also by dominate their ratio and position in the backbone sequence. These give copolymer classes including random copolymers, alternating copolymers with strictly alternating repeating units. Alternating copolymers (Grutke, 1994; Eisenbach, 1995), block copolymers consisting of two or more parts of pure homo successions Block copolymers: (Yamashita, 1990), inlay copolymers in which polymeric side chains of one repeating unit are grafted to a strand of another recurring unit, among others). Different copolymer architectures: random copolymer, alternating copolymer, block copolymer, and grafted copolymer (Koichi, 1985). Amphiphilic and double hydrophilic copolymers enable the formation of micelles an example of Block copolymers for drug delivery. Graft copolymerization is a technique for amending the chemical and physical properties of naturalist and synthetic polymers without drastically affecting its basic qualities (Nishioka, 1984). "Grafting" is a method where in monomers are covalently bonded (altered) onto the polymer chain (Tang, 2007; Dualeh, 1991). Graft copolymers can be gained with three general ways (Muramatsu, 1990; Eisenbach, 1995; Se, 1997) Fryling, Charles, "High Impact Polystyrene". Patent. Koppers Co Inc. Retrieved 14 February 2014.]. 1. Grafting-onto: A preformed polymer with a reactive end-group is used a precursor, and then joined to the backbone. This method involve reaction of functional groups with another functional (Susheel Kalia & Sabaa, 2013) groups which dispersed randomly on the prime chain of the other polymer (backbone) (Waly, 1998). 2. Grafting-from: The monomer is grafted from the backbone is significantly more inconstant than "grafting-on. 3. Grafting-through in other words grafting via surface-attached monomers (Xie, 2003) are carried out at the presence of polymers (backbone) onto which functionalized monomers have been attached. The hydroxyl groups of cellulose fiber were converted into thiocarbonyl-thio chain transfer agent (Wang, 2011), and were further used to mediate the RAFT polymerization of styrene graft copolymers became widely studied due to their increased number of applications due to their unique structures relative to other copolymers. Some common applications of graft copolymers include:- Membranes for the separation of gases or liquids (Muramatsu, 1990). Hydrogels (Eisenbach, 1995). Drug deliverers (Se, 1997). Thermoplastic elastomers (Fryling, 2014; Susheel Kalia, 2013; Waly, 1998; Xie, 2003; Wang, 2011). Polymeric emulsifiers. Impact resistant plastics *cellulose microfibers treated with an epoxide and grafted with poly (acrylic acid)*" (Lee, 2004). Synthesis by Atom Transfer Radical Polymerization". Biomacromolecules (Toledano-Thompson, 2005). Graft polymerization of vinyl monomers onto cotton fibers were reprocessing with amines gave a new properties (Mondal, 2008).

Instruments: FT-IR spectra was recorded using solid KBr discs by testing Shimadzu FT-IR 8000 series Fourier Transform, Infrared Spectrophotometer, Al-Mustansiriyah University, College of Science. Thermal analyses were performed using DSC, TGA and DTG in College Of Education Ibn al-Haytham. ¹H-NMR spectra were recorded on a Fosarier transform Varian spectrophotometer, company Bruker, model, ultra-shield 500MHZ, origin: Switzerl and Softening points were determined using Thermal Macroscop (Kofler-method), and Reichert thermovar. SP.10/0.25, 160. The degree of swelling for each disk sample after 24hrs was calculated, using the following equation:

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