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Solubility and swelling studies of polymer hybrid-nickel oxide nanocomposite

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Polymer nanocomposites involve a very important class of organic-inorganic nanostructured material which has enormous applications in storage, conversion devices. A polymer blend is prepared with polyurethane diol and polycaprolactone with the ratio of 4:1. Nickel oxide nanoparticle of various proportions was added to the polymer blend to obtain a complete polymer nanocomposite. The present work focuses the solubility and swelling studies of polymer nanocomposites prepared.

Keywords: Polycaprolactone, polyurethane diol, nickel oxide nanoparticle, swelling, solubility.