



Nanostructured Polymer Blends: Chapter 4. Compatibilization as a Tool for Nanostructure Formation (Micro and Nano Technologies)

Emmanuel Rotimi Sadiku, Elijah Sobalaje Ogunniran

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Great progress has been made in the science and technology of polymer-based nanomaterials over the last decade. Nanostructured polymer systems have attracted much scientific and applied research interest. The last two decades have witnessed significant advances in polymer science and technology generally, but more so for polymer blends. The idea of blending two (or more) polymers, especially immiscible blends, has come with a lot of challenges. Achieving this has brought to the fore the art and science (and engineering) of compatibilization. During the last few decades, the addition of nanoparticles, nanowires, nanotubes, and so on has advanced even further the creation of blends, alloys, and composites with different polymers. In making these blends, intermediaries such as compatibilizers, coupling agents, and other additives are often employed to bring about blends that are satisfactory for the purposes they are intended to serve. Nanostructured polymer blends formation has strongly improved the properties and structural integrities of polymer blends, by employing compatibilization as a tool to achieve such properties and structural integrities of polymer blends. Reinforcing compatibilized polymer blends with nanosize additives has further strengthened the properties and integrities of polymer blends, alloys, and composites.

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