

## 바이오 플라스틱 나노복합체

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Recently, heightened awareness of environmental and energy issues has resulted in increased research interest in potential applications of biodegradable polymers. However, biodegradable polyester is restricted by their drawbacks such as lower thermal stability, poor mechanical properties and slow crystallization rates. Biodegradable polyester/inorganic nanocomposites would not only overcome these drawbacks but would also provide a solution for developing biodegradable polymers as next generation materials. Nevertheless, one of the most problems about preparation nanocomposites is difficult to be separated between layers by fixed shear forces due to clay cohesive power. So it is not yet satisfied to make disorderly exfoliated clay in nonpolar polymer matrix. In this presentation, based on our experience with the novel biodegradable polymers synthesis and polymer nanocomposites preparation with a suitable modified filler, we meet with good results for improved physical properties.