

Название публикации:

Biodegradable materials containing recycled polymers

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Аннотация:

The work is devoted to study the effects of different environmental factors such as water, oxygen and, light composition based on polylactide and polyethylene of low density with the addition of oxidized polyethylene, as an analog of recycled materials. Established that in the composition polylactide - polyethylene at the first stage the significant impact of moisture and UV light. The influence of UV radiation on polylactide destruction was proved by differential scanning calorimetry (DSC). It is found that polylactic acid is oxidized slower than polyethylene.

Ключевые слова:

molecular mobility; thermal-oxidation; poly(3-hydroxybutyrate); degradation