

Thermal properties of recycled polyethylene/chitosan composites: The effect of eco-degradant PD 04

Abstract

The effect of eco-degradant PD 04 as additive on the thermal properties of recycled polyethylene (RPE)/chitosan biopolymer was investigated. The different scanning calorimetric (DSC) was used to investigate the thermal properties of composites at various 0, 20 and 40 php. The DSC result shows the presence of eco-degradant reduces the melting temperature processing and increase crystallinity of the composites.

Keywords; Chitosan, DSC, Eco-Degradant PD 04, Recycled Polyethylene