Biodegradable masterbatch blends: The implications on thermal conversion and recycling stream of polyethylene

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In this case report, we are dealing with the implications of blending fossil LDPE with biodegradable masterbatches on the thermal conversion and recycling stream of Low-Density Polyethylene (LDPE). Two types of commercial masterbatch are evaluated against a pure LDPE. The thermal degradation study was carried out by using thermogravimetric analysis guided by X-ray dif...

Liquid Chromatography-Mass Spectrometry studies on molecular structure of melatonin after Co-60 gamma irradiation

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In this work, effects of gamma rays on melatonin as a natural radioprotective agent, have been studied. Selected samples in the form of a) powder and b) solution, were prepared and irradiated by the use of gammacell radiation system under gamma-ray of Co-60 source, at doses from 20 to 2150Gy. The content of irradiated sample vials compared with of the control samples...