

Tensile properties LLDPE/soya spent powder blends: Oven aging

Abstract

Linear low-density polyethylene (LLDPE)/soya spent powder blends with different blends ratio were prepared by using internal mixer. Soya spent powder was varied from 5 to 40 wt. The thermal degradability was assessed by subjecting the dumbbell sample to oven aging. Thermal aging was carried out for 5 weeks. The degradability was measured by the periodic change in tensile properties of the blend samples. The tensile strength and elongation at break of the blends reduced as increasing the aging time. The effect of degradation was obvious in higher soya spent powder blends.

Keywords

Linear low density polyethylene; Oven aging; Soya spent powder; Tensile properties