INFLUENCE OF COMPATIBILIZER ON THE RHEOLOGICAL AND MORPHOLOGICAL PROPERTIES OF RECYCLE PET/PC BLENDS

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This work will focus on the influence of adding compatibilizer on the morphological and rheological properties of recycle poly(ethylene terephtalate)/polycarbonate (PET/PC) blends. In particular, to understand the effects of compatibilizer content on the rheological behavior of recycle PET/PC blends and its correlation with phase morphology. The results show that the adding compatibilizer causes to significantly improvement of the complex viscosity and elasticity at low frequencies region. Consequently, the finer phase morphology with homogeneous particle dispersion was obtained. There is excellent agreement between results of morphological and rheological properties.