

RHEOLOGY AND MORPHOLOGY OF RECYCLE PET/PC BLENDS

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The objective of this research is to study the influence of composition on rheological behavior and phase morphology of recycle poly(ethylene terephthalate) (PET) by melt blending with polycarbonate (PC). The results show that the phase morphology and rheological properties depends on blend composition. As a consequence, addition of the polycarbonate content leads to a significant change in morphological structure and a great mounting in the viscosity as well as the elasticity. It was concluded that there is a good agreement between the results obtained from rheological and morphological studies.