INFLUENCE OF COMPATIBILIZER ON THE RHEOLOGICAL BEHAVIOR OF PA6/ABS NANOCOMPOSITES

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This work will focus on the influence of the compatibilizer addition on the rheological properties of immiscible PA6/ABS nanocomposites. It was observed that the addition of compatibilizer (5-15 wt%) leads to a significant increase of the elasticity and complex viscosity at low frequencies. The results implied that compatibilizer causes to considerably enhancement of complex viscosity and elasticity at low frequencies region. Consequently, with increasing the compatibilizer content elasticity rises at the low frequency, and cross-over closed together can be because of increasing the phase interfacial adhesion between matrix and dispersed phases.