

CORRELATION OF BETWEEN PHASE MORPHOLOGY AND RHEOLOGICAL BEHAVIOR OF PA6/ABS BLENDS

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Phase morphology and rheological behavior of polyamide 6 /acrylonitrile butadiene styrene (PA6/ABS) polymers blends was studied. We evaluated the effect of addition of ABS as dispersed phase and EnBACO-MAH (ethylene n-butyl acrylate carbon monoxide maleic anhydride) as a compatibilizer on the morphological and rheological behaviors. The results showed that the phase morphology and rheological properties depends on blend composition As a consequence, addition of the ABS and compatibilizer weight fraction led to a significant change in morphological structure and a great mounting in the viscosity as well as the elasticity.