EFFECTS OF COMPATIBILIZER ON PHASE MORPHOLOGY OF POLYAMIDE 6/ACRYLONITRILE BUTADIENE STYRENE NANOCOMPOSITES

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This work will focus on the influence of the compatibilizer addition on the phase morphology of immiscible PA6/ABS/Nanoclay blends. It was observed that by increasing of the compatibilizer content the average radius of the spherical drops becomes smaller domain size. Addition of (5-15 wt.%) of the reactive compatibilizer to the binary PA6/ABS blends resulted in much finer morphology; hence the particles of the dispersed phase became much more homogeneous and the particle size reduced. Consequently, the finer morphologies with homogeneous particle dispersion were obtained.