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Compatibility Studies of Solution-Blended Poly(acrylonitrile)/Poly(*n*-butyl methacrylate)

N. SOMANATHAN,^{1,*} P. SENTHIL,² S. VISWANATHAN,² and V. ARUMUGAM¹

¹Biophysics Laboratory, Central Leather Research Institute, Adyar, Madras 600 020, India; and ²Polymer Department, A. C. College of Technology, Guindy Campus, Madras 600 025, India

SYNOPSIS

Poly(acrylonitrile) (PAN) was solution blended with poly(*n*-butyl methacrylate) (PnBMA) in various proportions. Compatibility in these blend systems was analyzed using ultrasound. The ultrasound velocity and attenuation results show that the two polymers formed a compatible blend. Viscosity and other derived parameters like free volume and internal pressure of the blends show that PAN form into an ideal blend with PnBMA in the compositions of 60 : 40 and 40 : 60. © 1994 John Wiley & Sons, Inc.

INTRODUCTION

Polymer-polymer compatibility has received much attention because many polymer blends perform well in attractive new applications for which the individual polymer components are unsuited. Polymer blends refer to intimate mixtures of two or more structurally different polymers which interact through secondary forces.¹ The blends may be homogeneous or heterogeneous on a microscopic scale, but should not exhibit any obvious inhomogeneity on a macroscopic scale. The manifestation of superior properties depends on compatibility or miscibility of homopolymers at molecular levels. To be miscible, some attractions between the two polymers must be present to partially overcome the intramolecular cohesive forces of the individual polymer. The specific interactions capable of inducing polymer miscibility include dipole-dipole interaction, ion-dipole interaction, hydrogen bonding, acid-base reaction, charge transfer, etc.^{2,3}

Compatibility of polymer blends can be examined with sophisticated experimental techniques.⁴ Such techniques include studies of viscosities,⁵ heat of mixing,⁶⁻⁸ glass transition temperature,^{2,9} mechanical properties,¹⁰ and morphological studies.¹¹ More

recently, many workers¹²⁻¹⁶ reported that the ultrasonic velocity measurements may reveal the extent of compatibility in highly viscous or solid-state polyblends. Ultrasonic attenuation was also used to predict the compatibility of polymers.^{8,17,18} Schneider reported⁸ that compatible polymer blends exhibit specific glass transition/composition behavior. Sidkey et al.^{19,20} studied the degree of compatibility of the rubber blend solutions using ultrasonic methods. In this study, compatibility and other interactions in poly(acrylonitrile) (PAN) and poly(*n*-butyl methacrylate) (PnBMA) blends were studied in detail using ultrasound studies.

EXPERIMENTAL

The monomers AN and nBMA (BDH) were freed from inhibitors and dried over anhydrous sodium sulphate. The monomers were finally vacuum distilled, and the middle fraction of the distilled monomers was used for the experiments.

POLYMERIZATION

Polymerization was done using emulsion polymerization technique in nitrogen atmosphere. The reaction was performed at 60°C with potassium persulphate as the initiator. The reaction was allowed to continue for 6 h. The polymer was precipitated

* To whom correspondence should be addressed.

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