

Chloroform-Formic Acid Solvent Systems for Nanofibrous Polycaprolactone Webs

Authors : I. Yalcin Enis, J. Vojtech, T. Gok Sadikoglu

Abstract : In this study, polycaprolactone (PCL) was dissolved in chloroform: ethanol solvent system at a concentration of 18 w/v %. 1, 2, 4, and 6 droplets of formic acid were added to the prepared 10ml PCL-chloroform:ethanol solutions separately. Fibrous webs were produced by electrospinning technique. Morphology of the webs was investigated by using scanning electron microscopy (SEM) whereas fiber diameters were measured by Image J Software System. The effect of formic acid addition to the mostly used chloroform solvent on fiber morphology was examined.

Keywords : chloroform, electrospinning, formic acid polycaprolactone, fiber

Conference Title : ICMSEM 2015 : International Conference on Materials Science, Engineering and Manufacturing

Conference Location : Rome, Italy

Conference Dates : May 05-06, 2015