Preparation of electrospun nanofiber using PS/PVP blending solution

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A blending nanofibrous mats comprising polystyrene(PS) and polyvinylpyrrolidone(PVP) were prepared by electrospinning. Electrospinning parameters such as polymer concentration, applied voltage and tip-to-collector distance were controlled. All electrospinning condition was performed with MC/DMAc solvent system at flow rate $100\mu\ell$ /min, applied voltage 15kV and tip-to-distance(TCD) 10cm. The weight ratio of PS/PVP blended polymer solution affect on the number of jets of PS/PVP. The nanofibrous mats were characterized by field emission scanning electron microscopy(FE-SEM) and Fourier transform infrared(FT-IR) spectroscopy and differential scanning calorimeter(DSC).