

عنوان مقاله:

Study on Thermal Characteristics and Morphology of Electrospun PAN/GNP Nanofibers

محل انتشار:

یازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1393)

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خلاصه مقاله:

Graphite nanoplatelets are produced by chemical or electrochemical treatments of graphite, after that we prepare electrospun Polyacrylonitrile/graphite nanoplatelets by Solution intercalation method. In a previous study, it has been shown that GNP can be dispersed in polymer solutions to form nanocomposite fibrils by the electrospinning process. the graphite nanoplatelets were dispersed in 10 wt. % polyacrylonitrile (PAN) in N,N Dimethylformamide (DMF) solution to form nanofibers by the electrospinning process. The composite fibrils were characterized by Thermogravimetric Analysis (TGA), differential scanning calorimetry (DSC) , Scanning Electronic Microscopy (SEM), and X-Ray Diffraction (XRD) for samples consisting of 0-2-4 wt. % of graphite nanoplatelets

کلمات کلیدی:

GNP, polyacrylonitrile, nanofibers, Solution intercalation, electrospinning

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