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Polymer Film Characterization: Electrical, Optical and Structural Characterization of Li Doped PVC Polymer Electrolyte Films for Battery Applications

By Padam Chandra Sekhar

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Polymer thin film technology has made tremendous advances in the last decade because of the wide range of their technological applications including coatings, adhesives, lithography, organic light emitting diodes, sensors such as electronic noses and organic photodiodes. These applications require polymers to meet diverse performance criteria that range from adhesives to electronic, optical and mechanical performance. For organic light emitting diode applications the electronic and optical properties of the polymer are important whereas for thin film coatings and lubrication applications, structural stability, viscosity and other mechanical properties are critical. The present dissertation entitled, POLYMER FILM CHARACTERIZATION-Electrical, Optical and Structural Characterization of Li Doped PVC Polymer Electrolyte Films for Battery Application contains five chapters with the following contents. Films of pure PVC and LiClO_4 complexed PVC were prepared by solution cast technique, in various compositions. X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR) and SEM data were recorded on these films to confirm the complexation of salt with the polymer. Conductivity as a function of composition and temperature was studied and the results are explained in terms of existing...



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