

Characterization of polyimide nanocomposites thin films with nanoclay loads

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A new type of polyimide nanocomposites films were prepared by synthesized PI with nanoclay. In this work, to synthesize PI, MDA and 6FDA were used. NMP was used as solvent. This synthesized PI nanocomposites were changing the load of nanoclay. These films were successfully characterized for confirming the synthesis by the FT-IR. Dielectric analyzer, Prism coupler were used for measuring the dielectric properties of the composite films. The morphology of the films were investigated by the X-Ray Diffractometer (XRD) analysis. Also TFSA(Thin Film Diffusion Analyzer) was used for measuring the watersorption behavior of polyimide nanocomposites films.