

## **Synthesis and characterization of nanoclay doped PVC/polyester composite film**

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The present study deals with the synthesis, characterization of nanoclay doped PVC/polyester composite film formed from new polyester obtained from terephthaloyl chloride with Schiff base diol formed by the reaction of 4-aminophenol with 3-hydroxy-4-methoxybenzaldehyde and 4-hydroxy-3,5-dimethoxybenzaldehyde (1:1 mole ratio) in nitrogen atmosphere. The synthesized aromatic polyesters were characterized by FT-IR and <sup>1</sup>H NMR, thermogravimetric analysis (TGA), differential scanning calorimetry (DSC) and gel permeation chromatography. The resultant composite was characterized by FT-IR, SEM and TGA.

Keywords: Composite film, polyester, nanoclay.

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