

31. D.C. Electrical Conductivity of doped polymer blend thin films

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ABSTRACT

The PS/ PVC (Polystyrene/ Poly vinyl chloride) blended polymer thin films doped with Meta Nitro Aniline (MNA) have been prepared by isothermal evaporation technique having different dopant ratio (0.1%, 0.5%, 1%, 5% MNA in 50% PS + 50% PVC). The conductivity values are found to be depending on the dopant ratio in the polymer blend and exhibit the Arrhenius behaviour in the temperature range studied.

Key words: Polystyrene, Poly vinyl chloride, Meta Nitro Aniline, Conductivity, Poly blend.