

Synthesis and Study of Electrical Conductivity of Cinnamic Acid doped 1:2 (PS+PMMA) Polyblend thin films.

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Abstract:

In the present investigation, thin films of Cinnamic acid doped 1:2 (PS+PMMA) polyblend were prepared by using isothermal evaporation technique. DC electrical conductivity have been measured at different temperature. In 1:2 PSPMMA polyblend, conductivity increases with,

- Increase of temperature
- Increase of Electric field
- Increase in the percentage of dopant Cinnamic Acid.
- Rise in electrical conductivity (σ) upto 4% of Cinnamic acid is less marked while electrical conductivity (σ) increases very remarkably as the dopant percentage is increased from 4% to 8%.

Keywords: PS+PMMA, electrical conductivity, cinnamic acid.