

## SYNTHESIS OF POLY PYRROLE, IT'S COMPOSITE WITH POLYCARBONATE RESIN AND STUDY OF THEIR ELECTRICAL PROPERTIES

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### **ABSTRACT**

*A composite of polypyrrole and Polycarbonate resin was prepared and identified by FTIR and UV spectroscopy. The x-ray diffraction shows some crystal structures and the d-spacing of the crystallites were calculated. The morphology of the compounds was studied by scanning electron microscope. The dc electrical conductivity of the doped and un-doped compounds was measured and compared. The dc conductivity of the composite is higher than that of its components.*

**KEYWORDS:** *Poly Pyrrole, Polycarbonate Resin, SEM, TG, X-Ray Diffraction, Dc Electrical Conductivity*

and the reciprocal temperature were drawn and the activation energy for each relation w