

TOPOGRAPHICAL STUDY AND THERMAL STABILITY OF CONJUGATED POLYMER OF 1, 2-DICHLORO BENZENE AND NAPHTHALENE

SUDHA SHARMA¹ & B. TIWARI²

¹Research Scholar, Mewar University, Bari, Rajasthan, India

²Director, D.S. Institute of Technology and Management, Ghaziabad, Uttar Pradesh, India

ABSTRACT

Recently, tremendous progress has been made toward application of organic (small molecule/polymer) light-emitting diodes (OLEDs) in full colour flat panel displays and other devices. However, with current technologies, OLEDs are still struggling with high manufacturing costs which really limit the size of OLEDs panels and with life time, especially differential aging of colours. To be more cost-effective for fabricating OLEDs, we believe solution-processing would be an attractive path due to its simplicity and highly reduced equipment costs. This proceeding paper discusses our recent progress in development of new Co polymer (Poly-CIBN) having improved solubility and processibility

In the present work, we synthesized the Co-polymer of 1, 2 Di-Chloro Benzene with Naphthalene. The co-polymer (Poly-CIBN) have to be shifted in the PL spectra corresponding to the monomers. The property of the PPPs polymers like solubility, processibility gets quite improvised. The conjugated polymer so formed is analyzed on the basis of spectroscopic method of IR, NMR spectroscopy. and AFM technique for topographical studies.

KEYWORDS: NMR, IR, AFM 1, 2 Di-Chloro Benzene, Naphthalene, Conjugated Polymer, PPPs, Topographical Study