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Transition Metal Ions Doped Blended Polymer Composites

By K. Naveen Kumar

LAP Lambert Academic Publishing Jul 2016, 2016.

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In recent years, metal-organic coordination polymers have been attracting a great deal of interest in the field of supramolecular chemistry and in developing certain functional materials. Bridging N-donor ligands have generally been used because of their strong extension ability both in covalent bonding and supramolecular interactions (H-bonding and aromatic stacking). Polyethylene oxide (PEO) is an interesting base material because of its high thermal stability and PEO is a semi-crystalline natured polymer. Polyvinylpyrrolidone (PVP) has been selected as the second polymer while preparing a blended polymer with PEO. Firstly PVP is an amorphous polymer, which demonstrates a faster ionic mobility compared to the other semi-crystalline polymers. Due to the presence of carbonyl group (C=O) in PVP, it forms a variety of complexes and further it could thermally be cross-linked with a good thermal stability and faster ionic mobility. Since there has been no report so far on systematic study of TM: PEO+PVP blended polymer films, the author has undertaken the present work to investigate their structural, thermal, optical, electrical and magnetic properties. 132 pp. Englisch.



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