The experiments of this study were divided into three parts : the first was to prepare the Zinc dodecyl benzenesulfonate(Zn(DBS)2). This composites prepared from Zn(DBS)2 and polyaniline will create a comb-shaped structure and properties of the complex composite was investigated by WXRD, POM, TGA, to analyze the layer structure, crystal structure, and thermal properties. The second was to prepare the conducting nanocomposites of polyanilne and clay at master batch. We analyzed the conducting master batch with WXRD, UV-vis, TGA, ESCA, to characterize the intercalation, conjugated structure of polyaniline , thermal properties, and the binding energy changes. Finally, it was to prepare the conducting polyblends prepared from master batch and regular organic polymers with WXRD, TGA, SEM, Miliohm meter were used to analyze the compatibility, thermal properties, morphology, electrical conductivity of the polyblends.