

SYNTHESIS AND CHARACTERIZATION OF BRIDGED PHTHALOCYANINE & TETRAPYRAZINO PORPHYRAZINE COMPLEXES OF ALUMINUM AND THEIR COPOLYMER

NAZAR A. HUSSEIN¹ & HASAN SABEEH JABUR²

¹Department of Chemistry, College of Education, University Basrah, Basra, Iraq

²Department of Chemistry, College of Science, University of Al-Muthana, Al-Muthana, Iraq

ABSTRACT

A two types of bridged complexes of Aluminum with two types of ligands phthalocynine and tetrapyrazino Porphrazine were prepared according to an adjusted procedure as in the literatures ^(1,2) to forms a two complexes Phthalocyanine to separately Aluminum chloride[I] and tetrapyrazino Porphrazine Aluminum chloride[II] then converted separately to phthalocyanato Aluminum hydroxide [III] and tetrapyrazino Porphrazine Aluminum hydroxide[IV]. The hydroxide complexes then converted to the bridged polymeric fluoride complexes [V] and [VI]. Their copolymer [VII] were prepared from the mixture of hydroxide complexes [III] and [IV] of(1:1) ratio to the polymeric fluoride of two ligands. The compounds then characterized by elemental analysis and spectroscopic methods.

ملخص البحث:

يتضمن البحث تحضير نوعين من المعقدات البوليمرية الجسرية للالمنيوم مع مجموعتين من الفثالوسيانين ورباعي الباييرازين البورافرازين ، كما حضر البوليمر المشترك لهذه المعقدات. وشخصت هذه البوليمرات المعقدة بالتحليل العنصري الدقيق والطرق الطيفية المختلفة ، تحت الحرارة ، المرئية وفوق البنفسجية ، والرنين النووي المغناطيسي.

KEYWORDS: Bridged Aluminum Phthalocynine and Tetrapyrazino Porphrazine Complexes Abridged Copolymer