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تحضير وتوصيف بعض مشتقات الأكريلات متعددة الجزئيات

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Abstract : Polymethylmethacrylate (PMMA) was treated with phenyl hydrazine (A) and hydrazine hydrate (B). The complexes of the modified polymers with copper (II) and nickel (II) chlorides and acetates were prepared. The prepared polymer metal complexes were characterized by elemental analysis and IR spectroscopy. Thermal stabilities of polymer metal complexes were studied using thermogravimetric analysis (TGA). Elemental analysis and IR revealed that polymer (A) reacted with copper (II) and nickel chlorides and acetates in 1:3 (metal: ligand) molar ratio, Polymer (B) reacted with copper (II) chloride and acetate in 1: 1 (metal: ligand) molar ratio and with nickel (II) chloride and acetate in 1:2 (metal: ligand) molar ratio. It was found that the thermal stabilities of polymer complexes are higher than the homopolymers.

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