

OPTICAL PROPERTIES OF METHYL METHACRYLATE PHOTO POLYMERIZATION INITIATED BY NANOSILVER

H. I. ABDULLAH¹, K. J. KADHIM² & I. H. HILAL³

¹Al-Mustansiriah University, College of Science, Department of Chemical, Baghdad, Iraq

²Al-Mustansiriah University, College of Science, Department of Physics, Baghdad, Iraq

³Al-Ministry of Science & Technology, Regenerated Energies, Technology & Researchs Directorate, Baghdad, Iraq

ABSTRACT

The effect of addition nanosilver on optical properties of poly methyl methacrylate. The nanocomposites prepared by photo polymerization of methyl methacrylate reduction of silver ions. Starting from mixtures of silver nitrate (AgNO₃), MMA monomers and ultraviolet irradiation. The novel nanocomposites here which prepared without using photo reduction methods at different concentration prepared (0, 5, 10, 15, 20, 25) %.

The morphological study was carried out using scanning electron microscopy (FE-SEM), in addition using EDX spectroscope to confirm the presence of nanosilver from results showed, the all optical parameter increased with increasing nanosilver percentage except energy gap values decreased with increasing nanosilver percentage.

KEYWORDS: Photo Polymerization, FE-SEM/EDX Analysis, Optical Properties

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