

EFFECT OF NANOSILVER PARTICLES ON THERMAL AND DIELECTRIC PROPERTIES OF (PVA-PVP) FILMS

MAJEED ALI HABEEB

Department of Physics, University of Babylon, College of Education for Pure Sciences, Babylon, Iraq

ABSTRACT

In this work, study of the effect of nanosilver particles on A.C electrical and thermal properties of polymer matrix consisting of polyvinyl alcohol and polyvinyl- pyrrolidone. The samples of (PVA-PVP-Ag) nanocomposites were prepared by using casting method. The weight percentages of nanosilver are (0, 5,10, 15 and 20) wt.%. The experimental results show that the dielectric and thermal properties of (PVA-PVP) are changed with increase of the nanosilver concentrations.

KEYWORDS: Dielectric Properties, Thermal Properties, Polyvinyl Pyrrolidone, Nanosilver