Abstract

We present the results of the differences observed between sputtered and evaporated aluminum (Al) on polyethylene terephthalate (PET) substrate. Al thin layers were deposited on PET using DC sputtering and evaporator. The structural and electrical properties of Al deposited on PET have been studied. Film characteristics such as electrical resistivity, surface roughness and crystallography structure have been determined. The effect of electrical properties was related to the quality of the growth.

Keywords: Aluminum; polyethylene terephthalate; sputtering; evaporation