

Permeation of Oxygen and Water Vapor Through EVOH/GO Nanocomposites

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Graphene, hexagonal carbon rings connected two-dimension materials of networking has emerged as the subject of enormous interest. In this work, the preparation of the Ethylene vinyl alcohol (EVOH)/Graphene Oxide (GO) by simple solution-mixing method with various EVOH/GO concentrations. The synthesized products were characterized by X-ray diffraction (XRD), UV-vis, field emission scanning electron microscopy, and differential scanning calorimetry analysis. Gas barrier of nanocomposites was measured with Illinois Instrument Model 8001. XRD revealed that GO was nearly exfoliated. GO also showed better performance in gas barrier of EVOH.