

Versatile Films manufactured by GO/SWCNT/PEG Nanocomposites

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We prepared molecular level dispersions of graphene oxide(GO) and single-walled carbon in polyethylene glycol (PEG). Transparent films of GO/SWCNT/PEG were fabricated by bar coating method. We studied on the electrical conductivity, thermal properties, gas barrier and light transmittance of the films. Various analyses were performed to characterize the hybrid films, including differential scanning calorimetry (DSC), UV/Vis spectroscopy, scanning electron microscope(SEM), transmission electron microscope(TEM), X-ray diffraction(XRD).