

Multi-function of Films based on GO/SWCNT/PEG Nanocomposites

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The composition into graphene oxide(GO) and single-walled carbon nanotube(SWCNT) is prepared with polyethylene glycol(PEG). We present the transparency, electrical conductivity, and mechanical strength of polymer composite. The composites are characterized by differential scanning calorimetry (DSC), and UV/Vis spectroscopy. Thermal analysis shows the effect of GO exfoliation on the melting behavior of PEG. The morphology of composite and the degree of distributed GO sheets are observed by scanning electron microscope(SEM), X-ray Diffraction(XRD).