عنوان مقاله:

Synergistic Effect of ZnO and Functionalized Carbon Nanotube on the Improvement of Filler Dispersion

محل انتشار:

اولین کنفرانس بین المللی مواد پیشرفته (سال: 1391)

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خلاصه مقاله:

In this study preparation of carboxylated styrene butadiene rubber (XSBR), multiwall carbon nanotube nanocomposite (MWCNT) was investigated by using a ball mill and in the latex form. Rheological properties such as storage modulus and viscosity along with FT-IR spectrums were used to follow the microstructure of nanocomposite. The results showed that addition of ZnO, along with functionalized carbon nanotube can effectively activate the carboxylated latex and consequently improve the rheological properties of nanocomposite

کلمات کلیدی:

Carboxylated styrene butadiene rubber (XSBR)- Rheological properties-MWCNT-ZnO