

## عنوان مقاله:

Effect of functionalized and unfunctional SWNT on morphology and mechanical properties of NBR/PVC blends

## محل انتشار:

دهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1391)

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## خلاصه مقاله:

NBR/PVC blends are physical mixtures with wide commercial importance [1]. The objective of the incorporation of the fillers in polymers is to improve of physical, thermal and mechanical properties, as well as the processing characteristics and also cost reduction of the final product. Carbon nanotubes (CNTs) are nano fillers of choice for the conception of composites because of their exceptional thermal, mechanical and electrical properties [2]. Even if their physical properties are impressive, it appears difficult to obtain the expected reinforcement by their incorporation within polymeric matrices. Cassagnau et al. [3] proposed that for improvement the dispersion of CNTs in polymer matrices, different experimental methods have been investigated and mainly rely upon two strategies involving either the formation of covalent bonds or establishment of non-covalent interactions between the polymer chains and nanotube surface. Surface and extremity functionalization most of the time enhance the quality of the nanotube dispersion using these physical methods.

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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