

## عنوان مقاله:

Investigation of Microstructure and mechanical properties of acrylonitrilebutadiene rubber (NBR)/ethylene propylene diene monomer (EPDM)/ nanographene (GNP) nanocomposites

## محل انتشار:

دوازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1395)

تعداد صفحات اصل مقاله: 2

## نویسندگان:

Farhad Javadi - *Department of Polymer Engineering, Tehran South Branch, Azad University, Tehran, Iran*

Ghasem Naderi - *Department of Rubber, Iran Polymer and Petrochemical Institute, Tehran, Iran*

Mohsen Jahed - *Department of Rubber, Iran Polymer and Petrochemical Institute, Tehran, Iran*

## خلاصه مقاله:

Nanocomposites based on acrylonitrile-butadiene rubber (NBR)/ethylene propylene diene monomer (EPDM) /Nanographene have been prepared by a two roll-mill mixer. Effect of non-functionalized (graphene X) and functionalized (graphene C) nanographene were studied on microstructure and mechanical properties of the vulcanized NBR/EPDM/GNP nanocomposites. Three different types of nanocomposites based on EPDM/NBR blend (70/30 wt.%) have been prepared, one type including 1.5 and 3%wt non-functionalized graphene in NBR/EPDM blend, the other one containing 1.5 and 3 %wt functionalized graphene and the third type consisting of non-functionalized and functionalized together (1.5C+1.5X) in NBR/EPDM blend

## کلمات کلیدی:

Acrylonitrile-butadiene rubber, Ethylene propylene diene monomer, Nanographene, Rubber nanocomposites

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/578433>

