

عنوان مقاله:

Effects of Nanoclay, Nanoalumina and Nanocopper on the Properties of NBR Compounds

محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

تعداد صفحات اصل مقاله: 2

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خلاصه مقاله:

Polymeric materials incorporated with nanosized fillers, known as nanocomposites, have attracted much interest from both industry and academia due to their unexpected properties such as superior mechanical properties, reduced gas permeability and improved thermal resistance [1-3]. Generally speaking, reinforcing materials of the nanocomposites are classified into three groups consisting of 1) nanoparticles, namely silica, metal and metal oxides such as copper, gold and alumina, 2) nanofibers, for example carbon nanotubes and 3) nanoplatelets, for instance graphite and layered silicates. In this work effect of organo nanoclay platelet (OC), alumina nanoparticle (ANP) and copper nanoparticle (CNP) on the properties of rubber compounds based on nitrile-butadiene-rubber (NBR) is examined

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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