

## عنوان مقاله:

New clay treatment via monomer intercalation for PET(Poly Ethylene Terephthalate) nanocomposite preparation via in situ polymerization

## محل انتشار:

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

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

The temperature of the preparation of PET is about 280, and in this temperature most of the organo-modifiers have been decomposed. This is a major problem in preparingPET/MMT nanocomposites. Modification of Na-MMT with organo modifiers, is an effective way to improve the compatibility between polymer matrix and clay filler, but organo-modifier don't have good thermal stability due to the high temperature that it has to withstand during the process ofPET. We prepare a new treatment for Na-MMT which could improve its thermal stability during the in situ polymerization. We modified Na-MMT with BHET (Bis hydroxylethyl terephthalate, the monomer of PET) and our new clay – modification don't degrade up the 400 And can stand out during the polycondonsation stage in synthesize of .PET. BHET that has been used, recovered from the glycolysis of off-grade PET

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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