سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
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عنوان مقاله:

Assessment of scattering rate and mechanical properties of blends of polypropylene / polyamide containing modified Nano clay and compatibilizer

محل انتشار:

سومین همایش ملی کاربردهای شیمی در فناوریهای نوین (سال: 1392)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

The main aim of this seminar is in this research, dispersion and mechanical properties of polypropylene and polyamide polymers blended with Nano clay (Cloisite 15A) and compatibilizer maleic anhydride (PP-g-MA) was studied. Two kinds of Nano composites-profile (PP / PA / Nano clay 50/50/5 W / W / phr) and PP / PA / PP-g-MA / clay (50/50/5/5, W / W / phr / phr) were compared. SEM images clearly showed that improved dispersion and compatibility of the polymer and Nano clay increased. Mechanical test results showed that the addition of PP-g-MA compatibilizer for PA / PP and PP/ PA improved adhesion to each other and increase the tensile strength, flexural .strength and impact strength of the PA/PP

کلمات کلیدی:

Nano composites, Polypropylene (PP), Polyamide (PA), Nano clay, Blending, compatibilizer

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