

## عنوان مقاله:

GRAFTING OF MALEATE ESTERS ONTO ATACTIC POLYPROPYLENE

## محل انتشار:

اولین همایش ملی تکنولوژی های نوین در شیمی و پتروشیمی (سال: 1393)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

Dialkyl maleate esters were grafted onto Atactic Polypropylene (APP) with an organic peroxide as initiator. Grafting was performed in batch system, melt state and a constant time of reaction. The effect of variables such as temperature, monomer and initiator concentration on amount of grafting was studied. Qualitative and Quantitative analyses of grafted polymers were performed with IR spectroscopy. Investigation of the experiments showed that in the more concentrated monomer conditions, grafting degree is higher in the maleate ester which has longer alkyl chain. This observation refers to more compatibility of the longer alkyl chain maleate ester in the polymer matrix. Thermal analyses of unreacted and grafted polymers were performed by DSC. The result of thermal analysis indicated that grafting of the monomers onto polymeric chain would lead to a decrease in amount of crystallinity

## کلمات کلیدی:

Atactic Polypropylene, Grafting, Dialkyl maleate

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/244555>

