

عنوان مقاله:

modification of Isotactic Polypropylene for Grafting Reaction

محل انتشار:

همایش منطقه ای شیمی (سال: ۱۳۸۹)

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خلاصه مقاله:

Isotactic polypropylene (iPP) is one of the most widely used polyolefins because of its outstanding physical and chemical properties, such as stiffness, excellent resistance to chemicals, a relatively high deformation temperature, and low density [1]. However, the melt strength of commodity iPP drops rapidly as the temperature rises. The low melt strength of iPP leads to poor processing properties in extensional flow-dominated processes, such as thermoforming, extrusion coating, blow molding, and foaming. It is necessary to improve the melt strength of iPP to further widen its applications [2]. One of the ways to improve Polypropylene is functionalization of this polymer. Hydroxyl functionalization of polypropylene was successfully synthesized by a graft copolymerization from maleic anhydride-modified polypropylene (PP-MAH). PP-MAH reacted with to produce a hydroxyl group containing polypropylene (PP-OH). The structure of obtained copolymer was investigated by ¹H NMR, FTIR spectroscopy

کلمات کلیدی:

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