

عنوان مقاله:

Impact of Prepolymerization Monomer on Polymerization of LLDPE

محل انتشار:

هفدهمین کنگره ملی مهندسی شیمی ایران (سال: 1400)

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خلاصه مقاله:

Polyethylene, in fact, has the highest production volume among polyolefins. Lightweight linear polyethylene resins, a category of polyethylenes, are considered as one of the main products in the world with a high annual production rate. One of the methods of synthesis of linear low-density polyethylene is the use of pre-polymerization method. In this research, propylene, ۱-butene and ethylene were used as prepolymers at ۳۵ °C. Also, various tests were performed to analyze the obtained polymers by pre-polymerization method. The results obtained in the melt flow index test showed that ethylene monomer had the lowest value. As a result, it had the highest molecular weight. The catalyst activity was increased as the propylene content in the sample increased.

کلمات کلیدی:

.Linear Lightweight Polyethylene, Polymerization Analysis, Melt Flow Index, Prepolymerization

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