

عنوان مقاله:

Preparation of MgCIY-Supported Ziegler-Natta Catalyst for Ethylene Polymerization

محل انتشار:

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خلاصه مقاله:

This article describes a highly properties of MgClY-supported Ziegler-Natta catalyst using in ethylene polymerization. Catalyst immobilization was performed on anhydrous MgClY. The effect of initial preparation on final product was investigated. Scanning electron microscopy showed that the catalyst particles exhibit an amorphous shape. In addition, polymerization of ethylene was carried out using the supported catalyst, triethylaluminium as a cocatalyst in slurry phase. According to the obtained results, it was found the heterogeneous catalyst displayed high activity, high bulk density and excellent hydrogen sensitivity. The polyethylene produced by the catalyst has a narrow particle size .distribution with a low fine powder content which competitive with traditional grades

كلمات كليدى:

Ziegler Natta catalyst; polyethylene; MgClY; polymerization; heterogeneous catalyst

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