

Abstract

CATALYST COMPOSITION FOR OLEFIN POLYMERIZATION AND APPLICATION OF SAME

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Disclosed is a catalyst composition for olefin polymerization, comprising the following components: a. a solid catalyst component, containing magnesium, titanium, halogen, and at least one internal electron donor compound containing lone pair electrons; b. an aluminum alkyl compound; and c. an external electron donor compound, containing a first external electron donor C1, the first external electron donor being a malonate compound. In the present invention, a catalyst composition containing a malonate compound external electron donor is used for olefin polymerization; especially, during propylene polymerization, the catalytic activity and hydrogen sensitivity of the catalyst can be obviously improved, thereby extending the molecular weight distribution of a polymer and facilitating development of different polymers.

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