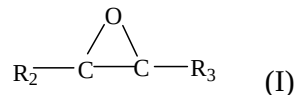


Abstract

A spheric magnesium compound comprises a reaction product of at least the following components: (a) a magnesium halide having a formula of $\text{MgX}_{2-n}\text{R}_n$, wherein X is independently chloride or bromide, R is a $\text{C}_1\text{-C}_{14}$ alkyl, a $\text{C}_6\text{-C}_{14}$ aryl, a $\text{C}_1\text{-C}_{14}$ alkoxy, or a $\text{C}_6\text{-C}_{14}$ aryloxy, and n is 0 or 1; (b) an alcohol compound; and (c) an epoxy compound having a general formula (I), wherein R_2 and R_3 are independently hydrogen, a $\text{C}_1\text{-C}_5$ linear or branched alkyl, or a $\text{C}_1\text{-C}_5$ linear or branched haloalkyl. The magnesium compound has characteristic DSC curve and X-ray diffraction pattern, and can be used as a carrier for olefin polymerization catalyst.



stereoregularity of polymer having high melt index, and low content of polymer fines.

