

ABSTRACT OF THE DISCLOSURE

OLEFIN POLYMERIZATION CATALYST AND PREPARATION

PROCESS OF POLYOLEFIN USING THE SAME

An olefin polymerization catalyst which comprises a solid catalyst component comprising an organomagnesium compound, an Si-H bond-containing chlorosilane compound, an alcohol and a titanium compound, and an organometallic compound component. The solid catalyst component is adjusted to have an alkoxy group/titanium molar ratio of 2.4 or lower and an alkoxy group/magnesium molar ratio of 0.15 or lower. A process for the preparation of polyolefin using the catalyst is also disclosed.

(Figure 1)

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