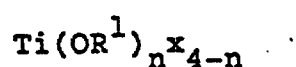


ABSTRACT

(Figures 1 & 2)

SOLID CATALYST COMPONENT FOR USE IN POLYMERIZATION OF α -OLEFINS

A solid-catalyst component for use in the polymerization of α -olefins obtained by reducing a titanium compound represented by the following general formula:



wherein R^1 represents a hydrocarbon group having 1 to 20 carbon atoms, X represents a halogen atom and n represents a number satisfying $0 < n \leq 4$, with an organomagnesium compound in the presence of an organic silicon compound having Si-O bond to produce a solid product,

treating the solid product with an ester compound,

treating the ester-treated solid product with a mixture of an ether compound and titanium tetrachloride or with a mixture of an ether compound, titanium tetrachloride and an ester compound to obtain a trivalent titanium compound-containing solid catalyst precursor, and

treating the solid catalyst precursor with a small quantity of an olefin in the presence of an organoaluminum compound to obtain a solid catalyst component for use in the polymerization of α -olefins.

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