

ABSTRACT

The present invention is a solid catalyst component for polymerization of olefins prepared by contacting a magnesium compound, a tetravalent halogen-containing titanium compound, a diester of an aromatic dicarboxylic acid, an aromatic hydrocarbon and an organic aluminum compound containing a hydroxyl group represented by the following general formula $(R^1CO_2)_mAl(OH)_{3-m}$ or aluminum hydroxide. The catalyst for polymerization of olefins comprising said solid catalyst component, an organic aluminum compound represented by the general formula $R^2_pAlQ_{3-p}$ and an organic silicon compound represented by the general formula $R^3_qSi(OR^4)_{4-q}$ can retard the rate of forming a polymer having a low molecular weight or a low stereoregular polymer which is soluble in a polymerization solvent in slurry polymerization and can obtain a high stereoregular polymer in a high yield, and also can obtain a copolymer having an excellent property in a high yield in the copolymerization of olefins.



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