

[Document Name] Abstract

Provided is a catalyst for polymerization of an olefin, capable of easily producing a propylene homopolymer with an excellent melt flow rate and moldability, as well as further excellent flexural modulus, despite containing a solid catalyst component for polymerization of an olefin comprising a compound other than phthalate esters as an internal electron-donating compound. A catalyst for polymerization of an olefin, comprising: a solid catalyst component for polymerization of an olefin, comprising magnesium, titanium, halogen, and a succinic acid diester compound, wherein a ratio (S/T), represented by a total content of an internal electron-donating compound with the succinic acid diester compound as a main component (S) to a content of the titanium (T), is 0.60 to 1.30 in a molar ratio, an organoaluminum compound, and one or more external electron-donating compounds selected from specific aminosilane compounds.