

Abstract

The present invention provides a method for easily producing a propylene-based block copolymer having a high melt flow rate and a high content of propylene/ α -olefin copolymer components, which exhibits excellent polymerization activity in the first polymerization step and the second polymerization step. A method for producing propylene-based block copolymer comprises a first polymerization step of polymerizing olefins containing 95 to 100 mass% of propylene using a catalyst for olefin polymerization comprising (A) a solid catalyst component for olefin polymerization containing titanium, magnesium, a halogen, and a 1,3-diether compound, and (B) an organoaluminum compound to obtain a propylene-based polymer under a temperature condition of 45°C to 65°C, and a subsequent second polymerization step of copolymerizing olefins containing 5 mass% or more and less than 95 mass% of propylene and an α -olefin excluding propylene in the presence of the propylene-based polymer under a temperature condition of 50°C to 90°C to obtain a propylene/ α -olefin copolymer.