

Abstract

PROCESS FOR PRODUCING MODIFIED PARTICLE, CARRIER OR CATALYST COMPONENT FOR ADDITION POLYMERIZATION, PRE-POLYMERIZED CATALYST COMPONENT THEREFOR, CATALYST THEREFOR, AND ADDITION POLYMER

A process for producing a modified particle, a carrier or a catalyst component for addition polymerization, which
 5 comprises the steps of (1) contacting a compound (a) represented by the defined formula M^1L^1 , with a compound (b) represented by the defined formula $R^1_{t-1}TH$, thereby producing a contact product, and (2) contacting the contact product with a compound (c) represented by the defined formula $R^2_{t-2}TH_2$ in the presence of a
 10 particle (d); a process for producing a pre-polymerized catalyst component or a catalyst for addition polymerization, which comprises the steps of (1) contacting the above modified particle with a transition metal compound and optionally an organoaluminum compound, thereby producing a primary catalyst, and (2)
 15 pre-polymerizing an olefin in the presence of the primary catalyst; a process for producing a catalyst for addition polymerization, which comprises the step of contacting the above catalyst component with a transition metal compound and optionally an organoaluminum compound; and a process for
 20 producing an addition polymer, which comprises the step of addition polymerizing an addition polymerizable monomer in the presence of the above catalyst.