

Abstract

SOLID CATALYST COMPONENT AND CATALYST FOR OLEFIN POLYMERIZATION,
PROCESS FOR PRODUCING OLEFIN POLYMER AND PROCESS FOR PRODUCING
SOLID CATALYST COMPONENT FOR OLEFIN POLYMERIZATION

There are provided:

(I) a solid catalyst component (A-1) for olefin
5 polymerization, which is obtained by a process comprising
the step of contacting:

(a-1) a carrier of carboxyl group-carrying
polymer particles having an average particle diameter of from
1 to 300 μm , and

10 (b) a transition metal compound of the number 4
group of metals in the periodic table of elements;

(II) a catalyst for olefin polymerization, which is
obtained by a process comprising the step of contacting:

(A-1) the above solid catalyst component, and
15 (B) at least one compound selected from the group
consisting of an organoaluminum compound and an
organoaluminumoxy compound;

(III) a process for producing an olefin polymer, which
comprises the step of polymerizing an olefin in the presence
20 of the above catalyst; and

(IV) a process for producing the above solid catalyst
component (A-1), which comprises the step of contacting:

(a-1) the above carrier, and

(b) the above transition metal compound.

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