

ABSTRACT

CATALYST FOR COPOLYMERIZING ETHYLENE WITH α -OLEFIN AND PROCESS FOR PRODUCING ETHYLENE- α -OLEFIN COPOLYMER USING THE CATALYST

A catalyst for copolymerizing ethylene with an α -olefin comprising a reaction product (A) of a titanium compound (A1) having at least one titanium-nitrogen bond with an organometallic compound (A2) having at least one element selected from the groups IA, IIA, IIB, IIIA and IVA of the periodic table and an organoaluminum compound (B), and a process for producing ethylene- α -olefin copolymers using the above catalyst. The present invention can provide a catalyst having a high activity per unit weight of transition metal and an ethylene- α -olefin copolymer having narrow composition distribution and a high molecular weight and excellent in weather resistance, color development, transparency, corrosiveness and mechanical properties.

(Figure 9)

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