

Title (en)  
PROCESS FOR THE POLYMERIZATION OF OLEFINS

Title (de)  
VERFAHREN ZUR POLYMERISATION VON OLEFINEN

Title (fr)  
PROCEDE POUR LA POLYMERISATION D'OLEFINES

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Application  
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Abstract (en)  
[origin: WO2005021610A1] The invention relates to a process for the polymerization of olefins in which at least one olefin is placed in contact with a catalytic system comprising: a) a catalytic solid comprising magnesium, at least one transition metal selected from the group consisting of titanium and zirconium and halogen, prepared by successively: - reacting, in a first step (1), at least one magnesium compound (M) chosen from oxygen-containing organic magnesium compounds with at least one compound (T) selected from the group consisting of oxygen-containing or halogen-containing tetravalent titanium and zirconium compounds, until a liquid complex is obtained; - treating, in a second step (2), the said liquid complex with an electron donor (ED); - treating, in a third step (3), the complex obtained in step (2) with a halogen-containing aluminic compound of formula  $A1R_nX3-n$ , in which R is a hydrocarbon radical comprising up to 20 carbon atoms, X is halogen and n is less than 3, and B) an organometallic compound of a metal chosen from lithium, magnesium, zinc, aluminum or tin, wherein the complex obtained in step (2) of the preparation of the catalytic solid (a) is a substantially solid complex and the electron donor (ED) is a benzoyl halide.

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