

Title (en)
PROCESS FOR POLYMERIZING ALPHA-OLEFIN.

Title (de)
VERFAHREN ZUR POLYMERISATION VON ALPHA-OLEFINEN.

Title (fr)
PROCEDE DE POLYMERISATION DE L'ALPHA-OLEFINE.

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Application
EP 93922327 A 19930923

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Abstract (en)
[origin: WO9407926A1] A process for polymerizing one or more (alpha)-olefins of up to 10 carbon atoms which comprises contacting the one or more (alpha)-olefin under polymerization conditions with a catalyst system comprising: (a) a titanium halide-containing magnesium, containing procatalyst component wherein the component is obtained by contacting a magnesium compound of the formula $MgR'R''$, wherein R' and R'' are, independently, alkoxide group, aryloxy group or halogen, with a halogenated tetravalent titanium compound in the presence of a halohydrocarbon and an alkyl ester of a polycarboxylic acid electron donor, (b) an organoaluminum cocatalyst component, and (c) an organosilane selectivity control agent represented by general formula (I) wherein R_1 , R_2 and R_3 , are, independently, alkyl group of 1 to 12 carbon atoms; aryl group of 1 to 12 carbon atoms, alkaryl group of 1 to 12 carbon atoms, aralkyl of 1 to 12 carbon atoms or halogen; and R_4 is hydrocarbyloxy of 1 to 2 carbon atoms. The process affords high catalyst productivity and produces polymer products that have broad molecular weight distribution while retaining low oligomer content properties.
[origin: WO9407926A1] A process for polymerizing one or more alpha -olefins of up to 10 carbon atoms which comprises contacting the one or more alpha -olefin under polymerization conditions with a catalyst system comprising: (a) a titanium halide-containing magnesium, containing procatalyst component wherein the component is obtained by contacting a magnesium compound of the formula $MgR'R''$, wherein R' and R'' are, independently, alkoxide group, aryloxy group or halogen, with a halogenated tetravalent titanium compound in the presence of a halohydrocarbon and an alkyl ester of a polycarboxylic acid electron donor, (b) an organoaluminum cocatalyst component, and (c) an organosilane selectivity control agent represented by general formula (I) wherein $R_{<1>}$, $R_{<2>}$ and $R_{<3>}$, are, independently, alkyl group of 1 to 12 carbon atoms; aryl group of 1 to 12 carbon atoms, alkaryl group of 1 to 12 carbon atoms, aralkyl of 1 to 12 carbon atoms or halogen; and $R_{<4>}$ is hydrocarbyloxy of 1 to 2 carbon atoms. The process affords high catalyst productivity and produces polymer products that have broad molecular weight distribution while retaining low oligomer content properties.

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