

Title (en)

PROCESS FOR POLYMERIZING ALPHA-OLEFIN.

Title (de)

VERFAHREN ZUR POLYMERISATION VON ALPHA-OLEFINEN.

Title (fr)

PROCEDE DE POLYMERISATION D'ALPHA-OLEFINES.

Publication

EP 0667875 A1 19950823 (EN)

Application

EP 93925170 A 19931105

Priority

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Abstract (en)

[origin: WO9411409A1] A process for polymerizing one or more alpha -olefins of up to 20 carbon atoms which comprises contacting the one or more alpha -olefins under polymerization conditions with a catalyst system comprising: (a) a titanium halide-containing, magnesium-containing pro-catalyst 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 polycarboxylic acid ester electron donor with or without a haloalkyl compound, (b) an organo-aluminium cocatalyst component, and (c) an organosilane selectivity control agent represented by general formula (i), wherein R<1> is alkyl group of 13 to 30 carbon atoms, alkaryl group of 16 to 36 carbon atoms or aralkyl group of 16 to 36 carbon atoms; R<2> and R<3> are, independently, methyl or alkyl group of 13 to 30 carbon atoms or hydrocarbyloxy group of 1 to 6 carbon atoms; and R<4> is a hydrocarbyloxy group of 1 to 6 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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