magnesium, zinc, manganese, calcium, and lead, present in a range from about 10 to about 500 ppm; and (c) a phosphorus salt co-catalyst selected from the group consisting of alkali metal phosphates, phosphites, metal alkali alkali hypophosphites and alkali metal polyphosphates, present in a range from about 10 to about 500 ppm; all amounts are based on the metallic or phosphorus element relative to the theoretical yield of the poly(ethylene terephthalate), by weight, to be made from the terephthalic acid. The catalyst composition was found to have increased the reaction rate in the production of poly(ethylene terephthalate), as well as improved the color of the produced product, by reducing the degree of yellowness in the final poly(ethylene terephthalate) product. Attenuation of the yellowish color indicates a reduction in the amount of undesired side reaction product.

5610114

CATALYST FOR THE POLYMERIZATION OF DIOLEFINS, METHOD FOR ITS PREPARATION,AND ITS USE FOR THE PREPARATION OF POLYMERS

Robert Pierre; Spitz Roger Clermont Ferrand, FRANCE assigned to Compagnie Generale Des Estab Michelin-Michelin & Cie; Elf Atochem S

A supported solid catalyst which can be used for the polymerization and copolymerization of conjugated dienes having as its basis the reaction product of: A) a solid MgCl2 support, B) an ether, preferably THF, as swelling agent for the support, C) a metal salt selected from among metals having an atomic number of between 57 and 71 or 92 in the periodic table of elements and, if the metal salt is not a halide, D) a halogenation agent selected from the group consisting of a halogenated compound of aluminum and a halogenated compound not containing aluminum, the reaction solid being free from the swelling agent, plus E) an

organic derivative of aluminum which is obligatory when the halogenation agent is not a halogenated compound of aluminum and optional when the halogenation agent is a derivative of aluminum. Also, a method of preparing this catalyst.

5610115

ORGANIC CARRIER SUPPORTED METALLOCENE CATALYST FOR OLEFIN POLYMERIZATION

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The organic carrier supported metallocene catalyst of the present invention is prepared by preparing a ligand complex of a silicone compound having at least one halogen, an alkyl group and a cycloalkane dienyl group, activating styrene polymer or styrene/divinylbenzene copolymer with a strong base including a metal atom such as Li, Na, K or Mg, reacting the activated polymer or copolymer with the ligand complex of a silicone compound so that the ligand may be supported on the activated polymer or copolymer, and reacting the organic carrier supported ligand with a compound of a transition metal of Group IVb of the Periodic Table or Lanthanides of Atomic Number 58-71. The styrene polymer or styrene/divinylbenzene copolymer may be alkylated by Friedel-Crafts alkylation before they are activated with a strong base.

5610246

PROCESS FOR POLYMERIZING PROPYLENE USING A SILICA-SUPPORTED CATALYST

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