

consisting essentially of: (A) a trivalent titanium compound-containing solid catalyst component prepared by reducing a titanium compound, represented by the general formula  $Ti(OR)_4$  in which R represents a hydrocarbon group having 1 to 20 carbon atoms; X represents a halogen atom; and a represents a numeral satisfying  $0 < a < 4$  or  $a = 4$ , with an organomagnesium compound in the presence of Si-O bond-containing organosilicon compound and an ester compound (a) to obtain a solid product, treating the solid product with an ester compound (b) to obtain an ester-treated solid product, and treating the ester-treated solid product with a mixture of an ether compound and titanium tetrachloride or a mixture of an ether compound, titanium tetrachloride and an ester compound (c), wherein the ester compounds (a), (b) and (c) may be the same or different from one another; (B) an organoaluminum compound and (C) an electron donative compound.

**5608019**

**TEMPERATURE CONTROL OF MW  
IN OLEFIN POLYMERIZATION  
USING SUPPORTED METALLOCENE  
CATALYST**

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In gas phase polymerizations and copolymerizations of ethylene, temperature controls the molecular weight, expressed as MI (wherein MI is measured according to ASTM D-1238 Condition E), of the resin product. Increase in polymerization temperature produces decrease in MI; whereas, decrease in polymerization temperature produces increase in MI.

**5608031**

**POLYESTERS MODIFIED WITH  
1,4-CYCLOHEXANEDIMETHANOL  
HAVING HIGH CLARITY PREPARED  
UTILIZING AN ANTIMONY  
CONTAINING  
CATALYST/STABILIZER SYSTEM**

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This invention relates to a polyester resin prepared by adding one or more dicarboxylic acid components to one or more glycol components containing 1,4-cyclohexanedimethanol equalling 100 mole %, the polyester resin having been prepared in the presence of a catalyst/stabilizer system consisting essentially of antimony compounds and phosphorous compounds and compounds selected from the group consisting essentially of zinc compounds, gallium compounds, and silicon compounds.

**5608032**

**CATALYTIC COMPOSITIONS FOR  
THE PREPARATION OF  
POLY(ETHYLENE  
TEREPHTHALATE) WITH  
ATTENUATED YELLOW COLOR**

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A catalyst composition for use in a polycondensation reaction for making poly(ethylene terephthalate) from terephthalic acid comprising: (a) an antimony salt catalyst present in a range from about 10 to about 1,000 ppm; (b) a metal salt catalyst of at least one of cobalt,