

5. The process as claimed in any one of the preceding claims wherein M' is Al.
6. The process as claimed in any one of the preceding claims wherein M is Zn, Mg and M' is Al.
7. The process as claimed in any one of the preceding claims, wherein X is selected from halide, inorganic oxyanions, organic anions, surfactants, anionic surfactants, anionic chromophores, and/or anionic UV absorbers.
8. The process as claimed in any one of the preceding claims, wherein the at least one solvent is an organic solvent, preferably anhydrous, and preferably selected from acetone, acetonitrile, dimethylformamide, dimethyl sulfoxide, dioxane, ethanol, methanol, n-propanol, 2-propanol, tetrahydrofuran or a mixture of two or more thereof.
9. The process as claimed in any one of the preceding claims, wherein the thermal treatment comprises heating at a temperature in the range 110°C to 400°C, preferably for a predetermined time at a predetermined pressure, optionally under a flow of an inert gas or under reduced pressure.
10. The process as claimed in claim 9, wherein the predetermined pressure is in the range of  $1 \times 10^{-1}$  to  $1 \times 10^{-3}$  mbar.
11. A process for producing a solid catalyst, the process comprising providing a catalyst support prepared by the process of any one of the preceding claims, and contacting the support with an activator, wherein the catalyst support comprises specific surface area ranging from 250-650 m<sup>2</sup>/g.
12. The process as claimed in claim 11, further comprising contacting the support, before, simultaneously with or after contacting the support with the activator, with at least one metal-organic transition metal compound.
13. A polymerisation catalyst comprising,

5. The process as claimed in any one of the preceding claims wherein M' is Al.
6. The process as claimed in any one of the preceding claims wherein M is Zn, Mg and M' is Al.
7. The process as claimed in any one of the preceding claims, wherein X is selected from halide, inorganic oxyanions, organic anions, surfactants, anionic surfactants, anionic chromophores, and/or anionic UV absorbers.
8. The process as claimed in any one of the preceding claims, wherein the at least one solvent is an organic solvent, preferably anhydrous, and preferably selected from acetone, acetonitrile, dimethylformamide, dimethyl sulfoxide, dioxane, ethanol, methanol, n-propanol, 2-propanol, tetrahydrofuran or a mixture of two or more thereof.
9. The process as claimed in any one of the preceding claims, wherein the thermal treatment comprises heating at a temperature in the range 110°C to 400°C, preferably for a predetermined time at a predetermined pressure, optionally under a flow of an inert gas or under reduced pressure.
10. The process as claimed in claim 9, wherein the predetermined pressure is in the range of  $1 \times 10^{-1}$  to  $1 \times 10^{-3}$  mbar.
11. A process for producing a solid catalyst, the process comprising providing a catalyst support prepared by the process of any one of the preceding claims, and contacting the support with an activator, wherein the catalyst support comprises specific surface area ranging from 250-650 m<sup>2</sup>/g.
12. The process as claimed in claim 11, further comprising contacting the support, before, simultaneously with or after contacting the support with the activator, with at least one metal-organic transition metal compound.
13. A polymerisation catalyst comprising,