

ABSTRACT

Catalytic solid usable for the stereospecific polymerisation of alpha-olefins, process for preparing it and process for polymerising alpha-olefins in its presence

Catalytic solids based on titanium trichloride complex, usable for the stereospecific polymerisation of alpha-olefins, obtained by heat treatment, in the presence of a halogenated activating agent, of the liquid material resulting from bringing $TiCl_4$, pretreated with an electron-donor compound, into contact with a composition (C) corresponding to the general formula



in which

- R represents a hydrocarbon radical or a hydrogen atom;
 - Y represents a group chosen from $-OR'$, $-SR'$ and $-NR'R''$, in which R' and R'' each represent a hydrocarbon radical or a hydrogen atom;
 - X represents a halogen;
 - p is an arbitrary number such that $0 < p < 3$; and
 - q is an arbitrary number such that $0 < q < 3$;
- the sum $(p + q)$ being such that $0 < (p + q) \leq 3$.

These catalytic solids of controllable porosity permit the production of a wide range of propylene polymers, in particular the propylene and ethylene copolymers known as "block" copolymers.

No figure.