

Abstract of the Disclosure

Process for the homo- and copolymerization of 1-olefins

For the production of poly-1-olefins, in particular of polyethylene, a supported Ziegler catalyst is used, whose transition metal component was prepared by reacting a magnesium alkoxide dispersion having a particle size of from 100 to 3000 nm simultaneously with various compounds of a number of transition metals selected from the group comprising titanium, zirconium, vanadium and chromium and then reacting the mixture with a chlorine-containing organoaluminum compound. The cocatalyst is an organometallic compound of a metal of group I, II or III of the Periodic Table. The polymers are obtained in high to very high yields and the molecular weight distribution of the polymers can be controlled.

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3-4883038

3 3 FEB 1988