

CATALYST COMPOSITION FOR USE IN THE POLYMERIZATION AND
COPOLYMERIZATION OF ETHYLENE

Abstract

An ethylene polymerization catalyst comprising two transition metal components on a support with one of the two transition
5 metals in the form of a metallocene. An aluminum alkyl activator for the non-metallocene transition metal component is also present. The support is an anhydrous material prepared by reacting (i) a silanol-containing silica impregnated with a magnesium alkyl with (ii) an alcohol. The catalyst produces
10 ethylene copolymers in a single reactor, with a bimodal molecular weight distribution.

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FIGURE 4 IS SUGGESTED FOR PUBLICATION.