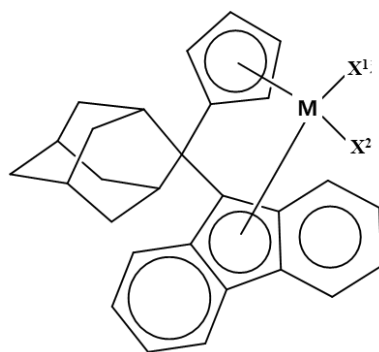


Abstract

The present invention relates to the field of olefin polymerization, and discloses a metallocene compound, a catalyst composition, and a method for preparing an ethylene-cyclic olefin copolymer. The metallocene compound has a structure as shown in formula (1), and in formula (1) M is a tetravalent transition metal atom; and X^1 and X^2 are each independently a halogen atom, an alkyl having 1 to 10 carbon atoms, an aromatic group having 6 to 12 carbon atoms or an N,N-dialkylamine group having 2 to 8 carbon atoms. Using the catalyst composition of the present invention in the preparation of an ethylene-cyclic olefin copolymer has the advantages of high catalytic activity, good copolymerization performance, and high molecular weight of an obtained polymer.



Formula (1)