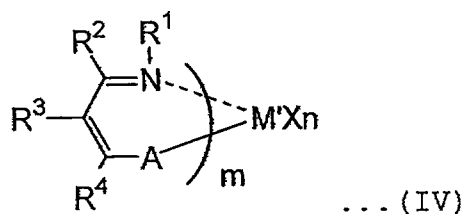


PROCESS FOR PRODUCING POLAR OLEFIN COPOLYMER AND POLAR
OLEFIN COPOLYMER OBTAINED THEREBY

ABSTRACT

A process for producing a polar olefin copolymer
comprises copolymerizing a non-polar olefin and a polar
5 olefin in the presence of a transition metal compound
selected from Groups 4, 5, 6 and 11 of the periodic table,
which is represented by the following formula (IV):



wherein M' is a transition metal atom selected from Groups
10 4, 5, 6 and 11 of the periodic table, m is an integer of 1
to 6, A is -O-, -Si-, -Se-, -N(R⁶)-, n is a number
satisfying a valence of M', R¹ to R⁴ and R⁶ are each a
hydrogen atom, a halogen atom, a hydrocarbon group and the
like, and X is a halogen atom, an oxygen atom, a
15 hydrocarbon group and the like, and at least one compound
(B) selected from the group consisting of an
organometallic compound (B-1), an organoaluminum oxy-
compound (B-2) and an ionic ionizing compound (B-3).
Therefore, the process is capable of obtaining a polar
20 olefin copolymer having excellent properties under mild
polymerization conditions.