

Abstract

Provided are an α -olefin (co)polymer useful as high-viscosity lubricant oil excellent in viscosity characteristics and low-temperature characteristics, and a lubricant oil containing the (co)polymer. The α -olefin (co)polymer is produced by the use of a metallocene catalyst and satisfies the following (a') and (b'). (a') The 2,1-insertion ratio at the polymer terminal, as measured through ^1H -NMR, is at least 30 mol% of the entire molecule, and (b') the mesotriad fraction (mm), as measured through ^{13}C -NMR, is at most 50 mol%. Preferably, a 1-octene/1-dodecene copolymer is provided, as produced by the use of a metallocene catalyst and satisfying the following (a) to (c). (a) The molar ratio of the 1-octene unit to the 1-dodecene unit is from 20/80 to 80/20, (b) the mesotriad fraction (mm), as measured through ^{13}C -NMR, is at most 50 mol%, and (c) the kinematic viscosity at 100°C is from 30 to 1000 mm^2/sec .