

ABSTRACT

OLEFIN BLOCK COPOLYMER, VISCOSITY INDEX IMPROVER FOR
LUBRICATING OILS AND LUBRICATING OIL COMPOSITION

The present invention provides an olefin block copolymer for a viscosity index improver capable of preparing a lubricating oil composition having excellent
5 low temperature properties and excellent balance between viscosity and shear stability, a viscosity index improver and a lubricating oil composition comprising the viscosity index improver.

The olefin block copolymer has a Mw/Mn of not more
10 than 1.5, and comprises:

(i) a polymer block comprising ethylene and an α -olefin of 3 to 20 carbon atoms, having a molar ratio (ethylene/ α -olefin) of ethylene units to α -olefin units of from 20/80 to 65/35 and having a Mw of 50,000 to 2,000,000,
15 and

(ii) a polymer block comprising ethylene and an α -olefin of 3 to 20 carbon atoms, having a molar ratio (ethylene/ α -olefin) of ethylene units to α -olefin units of from 70/30 to 85/15 and having a Mw of 10,000 to 400,000.