WHAT IS CLAIMED IS:

1. A polyalphaolefin, which is a hydrogenated polyalphaolefin composition comprising at least one hydrogenated alphaolefin oligomer, the polyalphaolefin having a weight average molecular weight (Mw) of 15,000 or less and a molecular weight distribution (Mw/Mn) of 2.0 or less and satisfying Expression (1) below:

~~End~~ 1.3 < end carbon/α carbon ≤ 2.7 (1)

wherein an end carbon/α carbon ratio represents a relative ratio of integrals at 14 to 16 ppm and 40 to 42 ppm in a ^{13}C NMR spectrum, and

wherein the α carbon is a carbon atom of a CH_2 group in a backbone chain of the at least one hydrogenated alphaolefin oligomer, and the end carbon is a carbon atom of a CH_3 end group in a side chain of the at least one hydrogenated alphaolefin oligomer.

~~2. The polyalphaolefin of claim 1, satisfying Expression (2) below.~~

~~1.3 ≤ End carbon/α carbon ≤ 2.7 (2)~~

~~3~~2. The polyalphaolefin of claim 1, satisfying Expression (3) below.

1.3 ~~≤~~ < ~~End~~ end carbon/α carbon ≤ 1.7 (3).

43. The polyalphaolefin of claim 1, wherein the polyalphaolefin has a kinematic viscosity at 100℃ of 200 cSt or less.

54. The polyalphaolefin of claim 1, wherein the polyalphaolefin has a pour point of -35℃ or less and a flash point of 230℃ or more.

65. The polyalphaolefin of claim 1, wherein the polyalphaolefin has a residual metal content of 5 ppm or less.

76. The polyalphaolefin of claim 1, wherein the polyalphaolefin is prepared by polymerizing a C6-C20 alphaolefin using a catalyst composition comprising a metallocene compound, an organometallic compound and an organoboron compound.

87. The polyalphaolefin of claim 76, wherein the alphaolefin is any one or a mixture of two or more selected from the group consisting of 1-hexene, 1-octene, 1-nonene, 1-decene, 1-undecene, 1-dodecene, 1-tricene, 1-tridecene, 1-tetradecene, 1-pentadecene, 1-hexadecene, 1-heptadecene, 1-octadecene, 1-nonadecene and 1-eicosene.