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:

$$1.3 < \text{end carbon}/\alpha \text{ carbon} \leq 2.7 \quad (1)$$

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 (3) below.

$$1.3 < \text{end carbon}/\alpha \text{ carbon} \leq 1.7 \quad (3).$$

3. The polyalphaolefin of claim 1, wherein the polyalphaolefin has a kinematic viscosity at 100°C of 200 cSt

or less.

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

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

6. 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.

7. The polyalphaolefin of claim 6, 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.