CLAIMS

What is claimed is

1. An oil-extended olefin block copolymer composition comprising:

~~an olefin block copolymer that is~~ an ethylene/α-olefin multi-block copolymer consisting of ethylene monomer and a straight-chain or branched, non-conjugated α-olefin comonomer with 3 to 30 carbon atoms;

an oil; and

a precipitated silica.

2. The composition of claim 1 wherein the ethylene/α-olefin multi-block copolymer has a density from ~~about~~ 0.85 g/cc to ~~about~~ 0.88 g/cc.

3. The composition of any of claims 1-2 comprising from ~~about~~ 30 wt % to ~~about~~ 40 wt % ethylene/α-olefin multi-block copolymer, from ~~about~~ 45 wt % to ~~about~~ 55 wt % oil, and from ~~about~~ 10 wt % to ~~about~~ 30 wt % precipitated silica.

4. The composition of any of claims 1-3 wherein the precipitated silica is the sole filler.

5. The composition of any of claims 1-4 comprising an oil/precipitated silica pre-mix.

6. The composition of claim 5 wherein the pre-mix comprises from ~~about~~ 60 wt % to ~~about~~ 80 wt % oil and from ~~about~~ 40 wt % to ~~about~~ 20 wt % precipitated silica.

7. The composition of any of claims 1-6 having a Shore A hardness from ~~about~~ 5 to ~~about~~ 50.

8. The composition of any of claims 1-7 having a normalized oil-bleed index of less than 20 after 1 week at 23°C.

9. The composition of any of claims 1-8 having a normalized oil-bleed index (NOBI) of less than 30 after 3 weeks at 23°C.

10. An oil-extended olefin block copolymer composition comprising:

an ethylene/α-olefin multi-block copolymer consisting of ethylene monomer and a straight-chain or branched, non-conjugated α-olefin comonomer with 3 to 30 carbon atoms ;

from 100 phr to 250 phr of an oil;

from 30 phr to 100 phr of a precipitated silica; and

the composition has a Shore A hardness from 5 to 30 and a normalized oil-bleed index of less than or equal to 30 after three weeks at 23°C.

11. The composition of claim 10 comprising 150 phr oil.

12. The composition of any of claims 10-11 comprising from 60 phr to 100 phr precipitated silica.

13. An oil-extended olefin block copolymer composition comprising:

an ethylene/α-olefin multi-block copolymer consisting of ethylene monomer and a straight-chain or branched, non-conjugated α-olefin comonomer with 3 to 30 carbon atoms;

a propylene-based polymer;

an oil; and

a precipitated silica.

14. The composition of claim 13 wherein the propylene-based polymer is a propylene homopolymer.

15. The composition of any of claims 13-14 comprising from ~~about~~ 10 wt % to ~~about~~ 40 wt % ethylene/α-olefin multi-block copolymer;

from ~~about~~ 5 wt % to ~~about~~ 20 wt % propylene homopolymer;

from ~~about~~ 20 wt % to ~~about~~ 60 wt % oil; and

from ~~about~~ 5 wt % to ~~about~~ 25 wt % precipitated silica.