CLAIMS

1. A process to form a crosslinked composition, the process comprising applying heat, and optionally radiation, to a composition that comprises at least the following *components*:

a) an elastomer, or an olefin-based polymer that has a density > 0.920 g/cc, and wherein *component a* has a total unsaturation ≥ 0.20 /1000C;

b) a molecule comprising at least one Si-H group;

c) at least one peroxide; and

d) optionally, at least one crosslinking coagent different from *component b*.

2. A process to form a crosslinked composition, the process comprising applying radiation, and optionally heat, to a composition that comprises the following *components*:

a) an elastomer, or an olefin-based polymer that has a density > 0.920 g/cc, and wherein *component a* has a total unsaturation ≥ 0.20 /1000C;

b) a molecule comprising at least one Si-H group.

3. The process of claim 1 or claim 2, wherein *component a* is an elastomer.

4. The process of any one of claims 1-3, wherein the elastomer has a density from 0.860 g/cc to 0.920 g/cc.

5. The process of any one of claims 1-4, wherein the elastomer is selected from a telechelic polyolefin of the formula $A^1L^1L^2A^2$, an unsaturated polyolefin of the formula A^1L^1, an ethylene/alpha-olefin/nonconjugated polyene interpolymer, or an ethylene/alpha-olefin interpolymer.

6. The process of any one of claims 1-5, wherein the *component b* comprises ≥ 2 Si-H groups.

7. The process of any one of claims 1-6, wherein the *component b* comprises ≥ 1 siloxane group(s) (-Si-O-Si-).

8. The process of any one of claims 1-7, wherein the silicon of the SiH in *component b* is bonded to at least one alkyl group (R).

9. The process of any one of claims 1-8, wherein the silicon of the SiH in *component b* is bonded to at least one alkoxyl group (RO).

10. A crosslinked composition formed from the process of any one of claims 1-9.

11. A composition comprising at least the following *components*:

a) an elastomer, or an olefin-based polymer that has a density > 0.920 g/cc, and wherein *component a* has a total unsaturation ≥ 0.20 /1000C;

b) a molecule comprising at least one Si-H group;

c) at least one peroxide; and

d) optionally, at least one crosslinking coagent different from *component b*.

12. The composition of claim 11, wherein *component a* is an elastomer.

13. The composition of claim 11 or claim 12, wherein the elastomer has a density from 0.860 g/cc to 0.920 g/cc.

14. The composition of any one of claims 11-13, wherein the elastomer is selected from a telechelic polyolefin of the formula $A^1L^1L^2A^2$, an unsaturated polyolefin of the formula A^1L^1, an ethylene/alpha-olefin/nonconjugated polyene interpolymer, or an ethylene/alpha-olefin interpolymer.

15. The composition of any one of claims 11-14, wherein the *component b* comprises ≥ 2 Si-H groups.