wherein the first composition has a "13C NMR % Peak Area," which is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, that is greater than 4.0 percent, as determined by 13C NMR; wherein the nonconjugated polyene is a nonconjugated diene selected from the group consisting of ENB, dicyclopentadiene and 1,4-hexadiene; and wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a rheology ratio (V0.1/V100 at 190°C) greater than, or equal to, 20.

In an another aspect, there is provided a composition comprising a first composition that comprises at least one ethylene/propylene/5-ethylidene-2-norbornene (ENB) interpolymer; and

wherein the first composition has a Mooney Viscosity (ML1+4, 125°C) from 20 to 80;

wherein the first composition has a "13C NMR % Peak Area," which is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, that is greater than 4.0 percent, as determined by 13C NMR,

wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a rheology ratio (V0.1/V100 at 190°C) greater than, or equal to, 20;

wherein the composition is produced by a continuous polymerization process comprising the steps of :

i) supplying ethylene, propylene and 5-ethylidene-2-norbornene (ENB) dissolved in a mixture of solvents into a continuous reactor; and

ii) introducing a catalyst that is activated using first and second co-catalysts into the continuous reactor;

thereby producing the composition;
wherein the catalyst is [[2',2'''-[1,3-propanediylbis(oxy-kO)]bis[3-[3,6-bis(1,1-dimethylethyl)-9H-carbazol-9-yl]-5'-fluoro-5-(1,1,3,3-tetramethylbutyl)[1,1'-biphenyl]-2-olato-kO]](2-)]-hafnium dimethyl.

In another aspect, there is provided a crosslinked composition formed from the composition as defined above.

In a further aspect, there is provided an article comprising at least one component formed from the composition as defined above.

CLAIMS:

1. A composition comprising a first composition that comprises at least one ethylene/alpha-olefin/nonconjugated polyene interpolymer; and

wherein the first composition has a Mooney Viscosity (ML1+4, 125°C) from 20 to 80;

wherein the first composition has a "13C NMR % Peak Area," which is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, that is greater than 4.0 percent, as determined by 13C NMR,

wherein the nonconjugated polyene is a nonconjugated diene selected from the group consisting of ENB, dicyclopentadiene and 1,4-hexadiene; and

wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a rheology ratio (V0.1/V100 at 190°C) greater than, or equal to, 20.

2. The composition of claim 1, wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a rheology ratio from 20 to 80.

3. The composition of any of the previous claims, wherein the first composition further comprises a second ethylene/alpha-olefin/nonconjugated polyene interpolymer.

4. The composition of any of the previous claims, wherein the first composition meets the following relationship: 13C NMR % Peak Area $\geq$ -0.40(C2) + 33%;

wherein the "13C NMR % Peak Area" is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, as determined by 13C NMR; and

the "C2" is the weight percent of polymerized ethylene in the first composition, based on the weight of the first composition.

5. The composition of any of the previous claims, wherein the first composition comprises from 40 to 80 weight percent ethylene, based on the weight of first composition.

6. The composition of any of the previous claims, wherein the first composition comprises from 0.5 to 10 weight percent of the polyene, based on the weight of first composition.

7. The composition of any of the previous claims, wherein the first composition has a viscosity at 0.1 rad/sec, 190°C, greater than, or equal to, 40,000 Pa•s.

8. The composition of any of the previous claims, wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a MWD less than, or equal to, 4.0.

9. The composition of any of the previous claims, wherein the first composition has a MWD less than, or equal to, 4.0.

10. The composition of any of the previous claims, wherein the composition further comprises a crosslinking agent.

11. A composition comprising a first composition that comprises at least one ethylene/propylene/5-ethylidene-2-norbornene (ENB) interpolymer; and

wherein the first composition has a Mooney Viscosity (ML1+4, 125°C) from 20 to 80;

wherein the first composition has a "13C NMR % Peak Area," which is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, that is greater than 4.0 percent, as determined by 13C NMR,

wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a rheology ratio (V0.1/V100 at 190°C) greater than, or equal to, 20;

wherein said composition is produced by a continuous polymerization process comprising the steps of :

i) supplying ethylene, propylene and 5-ethylidene-2-norbornene (ENB) dissolved in a mixture of solvents into a continuous reactor; and

ii) introducing a catalyst that is activated using first and second co-catalysts into the continuous reactor;

thereby producing said composition;

wherein the catalyst is [[2',2'''-[1,3-propanediylbis(oxy-kO)]bis[3-[3,6-bis(1,1-dimethylethyl)-9H-carbazol-9-yl]-5'-fluoro-5-(1,1,3,3-tetramethylbutyl)[1,1'-biphenyl]-2-olato-kO]](2-)]-hafnium dimethyl.

12. The composition of claim 11, wherein the first co-catalyst is a mixture of methyldi(C14-18 alkyl)ammonium salts of tetrakis(pentafluorophenyl)borate, HCl and Li[B(C6F5)4].

13. The composition of claim 11 or claim 12, wherein the second co-catalyst is a modified methylalumoxane (MMAO).

14. The composition of any of claims 11-13, wherein the ethylene/propylene/5-ethylidene-2-norbornene (ENB) interpolymer has a rheology ratio from 20 to 80.

15. The composition of any of claims 11-14, wherein the first composition further comprises a second ethylene/propylene/5-ethylidene-2-norbornene (ENB) interpolymer.

16. The composition of any of claims 11-15, wherein the first composition meets the following relationship: 13C NMR % Peak Area $\geq$ -0.40(C2) + 33%;

wherein the "13C NMR % Peak Area" is the {[(13C NMR peak area from 21.3 ppm to 21.8 ppm) divided by the (total integral area from 19.5 ppm to 22.0 ppm)] x 100}, as determined by 13C NMR; and

the "C2" is the weight percent of polymerized ethylene in the first composition, based on the weight of the first composition.

17. The composition of any of claims 11-16, wherein the first composition comprises from 40 to 80 weight percent ethylene, based on the weight of first composition.

18. The composition of any of claims 11-17, wherein the first composition comprises from 0.5 to 10 weight percent of the polyene, based on the weight of first composition.

19. The composition of any of claims 11-18, wherein the first composition has a viscosity at 0.1 rad/sec, 190°C, greater than, or equal to, 40,000 Pa•s.

20. The composition of any of claims 11-19, wherein the ethylene/propylene/5-ethylidene-2-norbornene (ENB) interpolymer has a MWD less than, or equal to, 4.0.

21. The composition of any of claims 11-20, wherein the first composition has a MWD less than, or equal to, 4.0.

22. The composition of any of claims 11-21, wherein the composition further comprises a crosslinking agent.

23. A crosslinked composition formed from the composition of any of the previous claims.

24. An article comprising at least one component formed from the composition of any of the previous claims.

25. The article of claim 24, wherein the article is selected from the group consisting of profiles, injection molded parts, gaskets, automotive parts, building and construction materials, shoe components, and tubes.