B) a peak area from 21.3 ppm to 21.8 ppm that is greater than, or equal to, 3.0 percent of the total integral area from 19.5 ppm to 22.0 ppm, as determined by 13C NMR; and

wherein the first composition has a tan delta (190°C at 0.1 rad/sec) less than, or equal to, 1.0.

In one aspect of the present disclosure, there is provided a composition comprising a first composition that comprises an ethylene/alpha-olefin/nonconjugated polyene interpolymer that has the following properties:

A) a Mw greater than, or equal to, 150,000 g/mole; and

B) a peak area from 21.3 ppm to 21.8 ppm that is greater than, or equal to, ~~3.0~~ 10 percent of the total integral area from 19.5 ppm to 22.0 ppm, as determined by 13C NMR; ~~and~~

wherein the first composition has a tan delta (190°C at 0.1 rad/sec) less than, or equal to, 1.0, and

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

In another aspect of the present disclosure, there is provided an article comprising at least one component formed from a composition disclosed herein.

In a further aspect of the present disclosure, there is provided a process for preparing a composition disclosed herein, said process comprising polymerizing, in solution, at least the following: ethylene, an alpha-olefin and a nonconjugated polyene.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 depicts the Tan Delta 0.1 rad/sec, measured at 190°C) versus the Weight Average Molecular Weight (Mw) for inventive and comparative polymers.

Figure 2 depicts the Tan Delta versus Frequency (rad/s) profiles at 190°C for inventive and comparative polymers.

Figure 3 depicts "Water Absorption (wt%) versus Foam Density" for Foamed Rods at 230°C.

Figure 4 depicts "Water Absorption (wt%) versus Foam Density" for Foamed Tapes at 230°C.

CLAIMS:

1. A composition comprising a first composition that comprises an ethylene/alpha-olefin/nonconjugated polyene interpolymer that has the following properties:

A) a Mw greater than, or equal to, 150,000 g/mole; and

B) a peak area from 21.3 ppm to 21.8 ppm that is greater than, or equal to, 103.0 percent of the total integral area from 19.5 ppm to 22.0 ppm, as determined by 13C NMR; and wherein the first composition has a tan delta (190°C at 0.1 rad/sec) less than, or equal to, 1.0;

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

2. The composition of claim 1, wherein the ethylene/alpha-olefin/nonconjugated polyene interpolymer has a Mw greater than, or equal to, 180,000 g/mole.

3. The composition of claim 1 or claim 2, wherein the ethylene/alpha-olefin/-nonconjugated polyene interpolymer has a Mw greater than, or equal to, 200,000 g/mole.

4. The composition of any of the previous claims, wherein the first composition further comprises an oil.

5. The composition of any of the previous claims, wherein the interpolymer has a rheology ratio (V0.1/V100 at 190°C) greater than, or equal to, 40.

6. The composition of any of the previous claims, wherein the interpolymer has a rheology ratio from 80 to 130.

7. The composition of any of the previous claims, wherein the first composition has a viscosity at 0.1 rad/sec, 190°C, from 150,000 to 250,000 Pa•s.

8. The composition of any of the previous claims, wherein the interpolymer has a polyene content from 6 to 15 weight percent, based on the weight of the interpolymer.

9. The composition of any of the previous claims, wherein the interpolymer has a Mooney Viscosity greater than, or equal to, 60 (ML 1+4, 125°C).