than 150 to about 500 kg/m^3. The foamable compositions further comprise a blowing agent and a crosslinking agent. The ethylene/α-olefin interpolymer is a multi-block copolymer comprising at least one soft block and at least one hard block.

U.S. Publication 2006/0199911 discloses a polymer composition comprising at least an ethylene/α-olefin interpolymer and at least one other polymer. The other polymer can be selected from a second ethylene/α-olefin interpolymer, an elastomer, a polyolefin, a polar polymer, and an ethylene/carboxylic acid interpolymer or ionomer thereof. The ethylene/α-olefin interpolymer is a block copolymer having at least a hard block and at least a soft block.

Additional polymer formulations are disclosed in the following references; U.S. Patents 5288762, 6221964, 6325956, 6340717, 6384096, 6767931, 7557147; U.S. Publications 2004/0039075, 2004/0142405; International Publications WO 2011/163176, and WO 2010/040019.

However, as discussed above, there remains a need for new foam compositions that provide consistent dynamic properties (for example, constant storage modulus (E')) over a broad range of temperature, as compared to incumbent EVA- and PU-based foams. These needs have been met by the following invention.

SUMMARY ~~OF THE INVENTION~~

~~The invention provides~~In one aspect, there is provided a composition comprising the following:

A) a first polymer selected from the following:

i) an ethylene/α-olefin interpolymer; or

ii) an ethylene/α-olefin multi-block interpolymer;

B) a second polymer selected from the following:

iii) an ethylene/α-olefin interpolymer;

iv) an ethylene/α-olefin/non-conjugated diene interpolymer; or

v) an ethylene/α-olefin multi-block interpolymer; and

wherein the first polymer has a density from 0.880 to 0.910 g/cc, and the second polymer has a density less than, or equal to, 0.867 g/cc, and wherein the weight ratio of the first polymer to the second polymer is from 0.5 to 9.

In another aspect, there is provided a foam formed from the composition as defined herein.

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

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a plot of "storage modulus (E') versus temperature" for inventive and comparative foams.

CLAIMS

1. A composition comprising the following:

A) a first polymer selected from the following:

i) an ethylene/α-olefin interpolymer; or

ii) an ethylene/α-olefin multi-block interpolymer;

B) a second polymer selected from the following:

iii) an ethylene/α-olefin interpolymer;

iv) an ethylene/α-olefin/non-conjugated diene interpolymer; or

v) an ethylene/α-olefin multi-block interpolymer; and

wherein the first polymer has a density from 0.880 to 0.910 g/cc, and

the second polymer has a density less than, or equal to, 0.867 g/cc, and

wherein the weight ratio of the first polymer to the second polymer is from 0.5 to 9.

2. The composition of claim 1, wherein the first polymer has a melting temperature (Tm) greater than 70°C, as determined by DSC.

3. The composition of claim 1 ~~or claim 2~~, wherein the first polymer has a melting temperature (Tm) less than 130°C, as determined by DSC.

4. The composition of ~~any one of the previous claims~~claim 1, wherein the first polymer has a molecular weight distribution (Mw/Mn) from 1.2 to 3.

5. The composition of any one of the previous claims, wherein the first polymer is i) an ethylene/α-olefin interpolymer.

6. The composition of claim 5, wherein the first polymer is a homogeneously branched linear ethylene/α-olefin interpolymer, or a homogeneously branched substantially linear ethylene/α-olefin interpolymer.

7. The composition of ~~any of claims 1-4~~claim 1, wherein the first polymer is ii) an olefin block interpolymer.

8. The composition of ~~any one of the previous claims~~claim 1, wherein the second polymer has a molecular weight distribution (Mw/Mn) from 1.2 to 3.

9. The composition of ~~any of the previous claims~~claim 1, wherein the second polymer is iii) an ethylene/α-olefin interpolymer.

10. The composition of claim 9, wherein the ethylene/α-olefin interpolymer is a homogeneously branched linear ethylene/α-olefin interpolymer, or a homogeneously branched substantially linear ethylene/α-olefin interpolymer.

11. The composition of ~~any claims 1-8~~claim 1, wherein the second polymer is iv) an ethylene/α-olefin/non-conjugated diene interpolymer.

12. The composition of claim 11, wherein the ethylene/α-olefin/non-conjugated diene interpolymer has a Mooney Viscosity (ML 1+4) at 125°C, from 5 to 70.

13. The composition of ~~any of the previous claims~~claim 1, wherein the composition further comprises a free radical agent and a foaming agent.

14. A foam formed from the composition of ~~any of the previous claims~~claim 1.

15. An article comprising at least one component formed from the composition of ~~any of claims 1-13~~claim 1.