What is claimed is:

[Claim 1] A biaxially-oriented industrial or home compostable film web comprising at least 3 co-extruded layers selected from the group consisting of:

a skin film layer, a sealant film layer, and a combination of a sealant film layer and a skin film layer, wherein each of the sealant film layer and the skin film layer comprises a blend of from 0 to about 80 wt.% polyhydroxyalkanoate (PHA) and from about 20 to about 100 weight percent polylactic acid (PLA), and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers; and

a core film layer comprising a blend of from about 30 to about 80 wt.% polyhydroxalkanoate (PHA), from about 20 to about 40 wt.% polylactic acid (PLA), and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein the core film layer is disposed between a combination of the skin film layer and the sealant film layer, is disposed between two sealant film layers, or is disposed between two skin film layers, wherein each of the sealant film layer and the skin film layer comprises the same or different amounts of PHA, PLA, and other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, and wherein the PHA of the core film layer, the sealant film layer, and the skin film layer comprise from about 2 to about 10 mole percent 3-hydroxyhexanoate and the balance 3-hydroxybutyrate.

[Claim 2] The biaxially-oriented industrial or home compostable film web of claim 1, wherein the biaxially-oriented industrial or home compostable film has an oven shrinkage of from 0 to less than about 5 % in the machine direction (MD) and an oven shrinkage of from 0 to less than about 15 % in the transverse direction (TD).

[Claim 3] The biaxially-oriented industrial or home compostable film web of claim 1, wherein the biaxially-oriented industrial or home compostable film has a pin puncture above about 700 grams- force (gf).

[Claim 4] A biaxially-oriented industrial or home compostable print film web comprising the core film layer disposed between the combination of the skin film layer and the sealant film layer of claim 1.

[Claim 5] A biaxially-oriented industrial or home compostable barrier film web comprising the core film layer disposed between the combination of the skin film layer and the sealant film layer of claim 1.

[Claim 6] The biaxially-oriented industrial or home compostable print film web of claim 5, wherein the print film web has an oven shrinkage of from 0 to less than about 5.0 % in the machine direction (MD) and an oven shrinkage of from 0 to less than about 15 % in the transverse direction (TD).

[Claim 7] The biaxially-oriented industrial or home compostable print film web of claim 5, wherein the biaxially-oriented industrial or home compostable print film web has a pin puncture range above about 700 grams-force (gf).

[Claim 8] The biaxially-oriented industrial or home compostable print film web of claim 5, wherein the biaxially-oriented industrial or home compostable print film has a haze value below 15%.

[Claim 9] A biaxially-oriented industrial or home compostable barrier film web comprising the core film layer disposed between two of the sealant film layers of claim 1.

[Claim 10] The biaxially-oriented industrial or home compostable barrier film web of claim 9, wherein the biaxially-oriented barrier film has an oven shrinkage of from 0 to less than about 5.0 % in the machine direction (MD) and an oven shrinkage of from 0 to less than about 15 % in the transverse direction (TD).

[Claim 11] The biaxially-oriented industrial or home compostable barrier film web of claim 9, wherein the biaxially-oriented barrier film has a pin puncture range above about 700 grams-force (gf).

[Claim 12] A biaxially-oriented industrial or home compostable print film web comprising the core film layer disposed between two of the skin film layers of claim 1.

[Claim 13] A method for improving the dimensional stability of a biaxially-oriented industrial or home compostable film web comprising at least three co-extruded layers, comprising extruding a composite poly(hydroxyalkanoate)-based polymer film; and annealing the composite poly(hydroxyalkanoate) polymer film at a temperature ranging from about 110 ºC to about 130ºC during a biaxial orientation process.

[Claim 14] The method of claim 13, wherein, prior to or simultaneous with the annealing step, the biaxially-oriented industrial or home compostable film web is relaxed in the transverse direction (TD) from about 5% to about 25% from stretching in

the transverse direction (TD).

[Claim 15] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web is annealed at a temperature ranging from about 110 ºC to about 130 ºC during a biaxial orientation process and prior to or simultaneous with the annealing step, the industrial or home compostable film web is relaxed in the transverse direction (TD) from about 15% to about 25% from stretching in the transverse direction (TD).

[Claim 16] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web comprises:

at least two sealant film layers wherein the at least two sealant film layers comprise a blend of from about 0 to about 80 wt.% polyhydroxyalkanoate (PHA) and from about 20 to about 100 weight percent polylactic acid (PLA), and, optionally, other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein each of the two sealant film layers may have same or different amounts of PHA, PLA, and other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers; and

a core film layer comprising a blend of from about 30 to about 80 wt.% polyhydroxalkanoate (PHA), from about 20 to about 40 wt.% polylactic acid (PLA), and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein the core film layer is disposed between the at least two sealant film layers, and wherein the PHA of the core film layer, and the at least two sealant film layers, comprise from about 2 to about 10 mole percent 3-hydroxyhexanoate and the balance 3-hydroxybutyrate.

[Claim 17] A biaxially-oriented barrier web made by the method of claim 16, further comprising coating and/or metallizing the barrier web.

[Claim 18] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web comprises:

at least two skin film layers wherein the at least two skin film layers comprise a blend of from about 0 to about 80 wt.% polyhydroxyalkanoate (PHA) and from about 20 to about 100 weight percent polylactic acid (PLA), and, optionally, other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein each of the two sealant film layers

may have same or different amounts of PHA, PLA, and other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers; and

a core film layer comprising a blend of from about 30 to about 80 wt.% polyhydroxalkanoate (PHA), from about 20 to about 40 wt.% polylactic acid (PLA), and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein the core film layer is disposed between the at least two skin film layers.

[Claim 19] A biaxially-oriented print web made by the method of claim 18, further comprising printing on the print web.

[Claim 20] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web comprises:

a skin film layer comprising a blend of from about 0 to about 80 wt.% polyhydroxyalkanoate (PHA) and from about 50 to about 70 weight percent polylactic acid (PLA),

and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers;

a core film layer comprising a blend of from about 30 to about 80 wt.% polyhydroxalkanoate (PHA), from about 20 to about 40 wt.% polylactic acid (PLA), and, optionally, minor amounts of minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers; and

a sealant film layer comprising a blend of from 0 to about 80 wt.% polyhydroxyalkanoate (PHA) and from about 20 to about 100 weight percent polylactic acid (PLA), and, optionally, minor amounts of other biopolymers, other polymers, nucleating agents, chain extenders, fatty amides, and fillers, wherein the core film layer is disposed between the skin film layer and the sealant film layer.

[Claim 21] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web has a haze value of less than about 15 %.

[Claim 22] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web comprising at least 3 co-extruded layers has an oven shrinkage of from 0 to less than about 5% in the machine direction (MD) at 120º C and an oven shrinkage of from 0 to less than about 15% in the transverse direction (TD).

[Claim 23] The method of claim 13, wherein the biaxially-oriented industrial or home compostable film web has a pin puncture range of about 700 grams-force (gf).

[Claim 24] A biaxially-oriented industrial or home compostable film web made by the method of claim 13.

[Claim 25] A biaxially-oriented industrial or home compostable film web comprising at least three co- extruded layers made by the method of claim 13.