WHAT IS CLAIMED IS

Claim 1. A polyester comprising:

from 15 to 40 weight percent monomer repeat units of isosorbide, based on the total weight of the polyester;

from 25 to 60 weight percent monomer repeat units of a dicarboxylic acid or anhydride, based on the total weight of the polyester; and

from 10 to 20 weight percent monomer repeat units of a polyhydric alcohol, based on the total weight of the polyester,

wherein the polyester has a weight average molecular weight of at least 8000 Daltons, as determined by ASTM D5296-05 and

wherein the dicarboxylic acid or anhydride comprises a mixture of (1) succinic acid or succinic anhydride and (2) nadic anhydride, methyl nadic anhydride, C36 dimer acid, or partially hydrogenated C36 dimer acid, and mixtures thereof.

Claim 2. The polyester of Claim 1, wherein the polyester comprises from 25 to 35 weight percent succinic acid or succinic anhydride and from 10 to 25 weight percent nadic anhydride, methyl nadic anhydride, C36 dimer acid, or partially hydrogenated C36 dimer acid.

Claim 3. The polyester of claim 1, wherein the polyhydric alcohol is selected from the group consisting of glycerin, ethylene glycol, diethylene glycol, 1,3-propanediol, 1,4-butanediol, 1,5-pentanediol, 1,6-hexanediol, neopentyl glycol, propylene glycol, triethylene glycol, tetraethylene glycol, dipropylene glycol, tripropylene glycol, tetrapropylene glycol, trimethylene glycol, 1,1,1-trimethylol ethane, 1,2,3-trimethylolpropane, methyl propanediol, pentaerythritol, and poly(oxyalkylene) polyols comprising monomer repeat units of ethylene oxide, propylene oxide, or butylene oxide, and mixtures thereof.

Claim 4. The polyester of claim 1, wherein the polyhydric alcohol is selected from the group consisting of 1,3-propanediol, 1,4-butanediol, 1,6-hexanediol, methyl propanediol, and mixtures thereof.

Claim 5. The polyester of claim 1, wherein the polyhydric alcohol comprises 1,3-propanediol.

Claim 6. The polyester of claim 1, wherein the dicarboxylic acid or anhydride comprises succinic acid or anhydride, and the polyhydric alcohol comprises 1,3-propanediol.

Claim 7. The polyester of Claim 1, wherein the polyester has a weight average molecular weight from 10,000 to 15,000 Daltons, as determined by ASTM D5296-05.

Claim 8. A polymer composition comprising:

from 60 to 85 weight percent of a biodegradable polymer selected from the group consisting of poly(lactic acid), poly(hydroxyalkanoates), and mixtures thereof; and

from 5 to 30 weight percent of an impact modifying polyester, wherein the impact modifying polyester comprises

from 15 to 40 weight percent monomer repeat units of isosorbide, based on the total weight of the polyester;

from 25 to 60 weight percent monomer repeat units of a dicarboxylic acid or anhydride, based on the total weight of the polyester; and

from 10 to 20 weight percent monomer repeat units of a polyhydric alcohol, based on the total weight of the polyester,

wherein the polyester has a weight average molecular weight of at least 8000 Daltons, as determined by ASTM D5296-05 and

wherein the dicarboxylic acid or anhydride comprises a mixture of (1) succinic acid or succinic anhydride and (2) nadic anhydride, methyl nadic anhydride, C36 dimer acid, or partially hydrogenated C36 dimer acid, and mixtures thereof.

Claim 9. The polymer composition of claim 8, wherein the polyester comprises from 25 to 35 weight percent succinic acid or succinic anhydride and from 10 to 25 weight percent nadic anhydride, methyl nadic anhydride, C36 dimer acid, or partially hydrogenated C36 dimer acid.

Claim 10. The polymer composition of claim 8, the polyhydric alcohol is selected from the group consisting of glycerin, ethylene glycol, diethylene glycol, 1,3-propanediol, 1,4-butanediol, 1,5-pentanediol, 1,6-hexanediol, neopentyl glycol, triethylene glycol, tetraethylene glycol, propylene glycol, dipropylene glycol, tripropylene glycol, tetrapropylene glycol, trimethylene glycol, 1,1,1-trimethylol ethane, 1,2,3-trimethylolpropane, methyl propanediol,

pentaerythritol, and poly(oxyalkylene) polyols comprising monomer repeat units of ethylene oxide, propylene oxide, or butylene oxide, and mixtures thereof.

Claim 11. The polymer composition of claim 8, wherein the polyhydric alcohol is selected from the group consisting of 1,3-propanediol, 1,4-butanediol, 1,6-hexanediol, methyl propanediol, and mixtures thereof.

Claim 12. The polymer composition of claim 8, wherein the polyhydric alcohol comprises 1,3-propanediol.

Claim 13. The polymer composition of claim 8, wherein the dicarboxylic acid or anhydride comprises succinic acid or anhydride, and the polyhydric alcohol comprises 1,3-propanediol.

Claim 14. The polymer composition of Claim 8, wherein the impact modifying polyester has a weight average molecular weight from 10,000 to 15,000 Daltons, as determined by ASTM D5296-05.

Claim 15. The polymer composition of Claim 8, wherein the polymer composition comprises from 60 to 85 weight percent of the biodegradable polymer and from 5 to 30 weight percent of the impact modifying polyester.

Claim 16. The polymer composition of Claim 8, wherein the biodegradable polymer comprises poly(lactic acid).

Claim 17. The polymer composition of Claim 8, wherein the biodegradable polymer comprises at least one poly(hydroxyalkanoate).

Claim 18. The polymer composition of Claim 17, wherein the at least one poly(hydroxyalkanoate) comprises poly-3-hydroxybutyrate-co-3-hydroxyhexanoate ("P(3HB-co-3HHx)").

Claim 19. The polymer composition of Claim 18, wherein the P(3HB-co-3HHx) comprises from 75 to 99 mole percent hydroxybutyrate and from 1 to 25 mole percent hydroxyhexanoate.

Claim 20. The polymer composition of Claim 18, wherein the P(3HB-co-3HHx) comprises from 93 to 98 mole percent hydroxybutyrate and from 2 to 7 mole percent hydroxyhexanoate.

Claim 21. The polymer composition of Claim 17, wherein the at least one poly(hydroxyalkanoate) comprises a terpolymer made up from 75 to 99.9 mole percent monomer repeat units of 3-hydroxybutyrate, from 0.1 to 25 mole percent monomer repeat units of 3-hydroxyhexanoate, and from 0.1 to 25 mole percent monomer repeat units of a third 3-hydoxyalkanoate having from 5 to 12 carbon atoms.

Claim 22. The polymer composition of Claim 17, wherein the at least one poly(hydroxyalkanoate) has a weight average molecular weight from 50,000 Daltons to 2.5 million Daltons, as determined by ASTM D5296-05.

Claim 23. The polymer composition of Claim 17, wherein the at least one poly(hydroxyalkanoate) has a weight average molecular weight from 500,000 Daltons to 750,000 Daltons, as determined by ASTM D5296-05.

Claim 24. The polymer composition of Claim 8, wherein the polymer composition comprises from 5 to 25 weight percent of poly(lactic acid) and from 70 to 90 weight percent of at least one poly(hydroxyalkanoate), based on the overall weight of the polymer composition.

Claim 25. The polymer composition of Claim 8, further comprising

from 1 to 10 weight percent of at least one plasticizer;

from 0.1 to 5 weight percent of at least one nucleating agent; and

from 0.1 to 10 weight percent of a filler.

Claim 26. The polymer composition of Claim 8, wherein the polymer composition is biodegradable as determined using ASTM standard D5988.

Claim 27. The polymer composition of Claim 8, wherein the polymer composition is home compostable as determined using ASTM standard D6868.

Claim 28. A molded sheet comprising the polymer composition of Claim 8.

Claim 29. A molded article comprising the polymer composition of Claim 8, wherein the molded article is formed by thermoforming, injection molding, or blow molding.

Claim 30. A film comprising the polymer composition of Claim 8, wherein the film is a blown film or a cast film.

Claim 31. A fiber comprising the polymer composition of Claim 8.